
HEALTH INDICATOR DATA BOOK

**A Comparison of Access and Quality Measures
for Rhode Islanders <65 years old
by Health Insurance Coverage – Trends 1995-2005**

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June 2007

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PURPOSE OF HEALTH INDICATOR DATA BOOK

To assess, design, monitor and evaluate health services and program interventions for Rhode Islanders on Medicaid using existing public health data sets, statewide surveys, and Medicaid Program Data. The trend data in this report is designed to determine unmet health needs, measure access to care, and evaluate health outcomes of Medicaid enrollees compared to Rhode Islanders on Private Insurance or the Uninsured.

1 – See Griffin J, Health Indicator System for Rhode Islanders on Medicaid: An Effective Model to Identify Unmet health Care Needs and Evaluate Program Initiatives, Robert Wood Johnson, Center for Health Care Strategies Resource Paper #271, April 2005

HIGHLIGHTS

Access to Care

- Access to health insurance for Rhode Islanders has declined from 2004-2005. This will be the fifth consecutive year that the proportion of uninsured in Rhode Island has increased. In 2000 5.9 % of Rhode Islanders were uninsured and in 2005 this rate almost doubled to 11.8%. Increases were seen in all age groups.
- Uninsured Rhode Islanders (ages 18-64) have poor access to primary care, almost half (47.7%) were not able to see a doctor in the past year due to cost and only 40.6% of the uninsured had a routine visit in the past year.
- Rhode Islanders (ages 18-64) on fee-for-service Medicaid have the highest proportion of recipients with access to primary care. In 2005 91.5% of Rhode Island adults on fee-for-service Medicaid had a routine check-up whereas only 79.7 % of Rhode Islanders on private insurance had a routine check-up.
- The proportion of RI hospitalizations with a primary diagnosis of mental disorder is rising for adults on fee-for-service Medicaid. In 2001 32.8% of the hospitalizations for adults 18-64 on fee-for-service Medicaid were for mental hospitalizations and this percentage rose to 36.5% in 2004.

- The percent of women who received adequate prenatal care is declining for both pregnant women on RItE Care and on private insurance. After ten years of improvement in access to prenatal care RItE Care has seen a two year drop to 73.6%.

Utilization of Care

- Physician office visits have increased significantly for children and adolescents in foster care from 3,192.4 per 1,000 in SFY 2002 to 3,807.3 per 1,000 in SFY 2005. During the same time period children on RItE Care also experienced an increase in physician office visits from 3,415.1 per 1,000 to 3,616.5 per 1,000.
- Emergency Department utilization decreased significantly for children on SSI from 689.5 in 2002 per 1,000 to 520.1 per 1,000 in 2005, but increased significantly for children on RItE Care.
- Hospitalization rates also declined from 2002 to 2005 for Children with Special Health Care Needs (i.e., Foster and SSI). The hospitalization rate for children on SSI decreased from 165.9 per 1,000 to 150.9 per 1,000 and for foster children from 162.4 per 1,000 to 156.8 per 1,000.

Health Status – Chronic Disease

- Rates of three chronic conditions – depression, asthma and diabetes – are all higher among Children with Special Health Care Needs . Depression rates are highest among foster children. In SFY 2005 235 per 1,000 foster children had a diagnosis of depression on one of their medical claims. This rate is six times higher than children on RItE Care whose depression rate is 37.6 per 1,000. Asthma rates are rising for all three groups of children.

Health Status – Prenatal Care and Birth Outcomes

- Repeat births to teen mothers has decreased significantly for both teens on RItE Care and those who are privately insured. In 1995 23.3% of RItE Care teen births were to teens who were already mothers and by 2005 this proportion dropped to 19.1%.
- Smoking rates among pregnant women on RItE Care have also declined in the past ten years from 29.2% to 16.3%
- Rates of prematurity have increased in the past ten years. The rise in prematurity from 6.8% of Medicaid births in 1995 to 10.1% of Medicaid births in 2005 is of concern because of its association with poor infant outcomes

- Overall infant mortality has declined at a higher rate for infants on Medicaid than infants on private insurance. In 1995 the infant mortality rate for RIte Care infants was 9.4 deaths per 1,000 births and this rate dropped to 6.0 deaths per 1,000 births in 2005. The infant mortality rate for privately insured infants actually rose during this same time period from 5.3 deaths per 1,000 births to 5.8 deaths per 1,000 births.

METHODS

Health Indicator Selection Criteria:

RI population based reliable data set that is:

- Collected annually, so trend comparisons can be made
- Collects insurance coverage, so comparisons can be made between Medicaid, Privately Insured and Uninsured

Six Data Sets that met these criteria:

1. Medicaid Research File (MRF) SFY 2002-2005 *
2. Current Population Survey, Census, 1995-2005
3. Behavioral Risk Factor Surveillance System (BRFSS) 1996-2005, RI Department of Health
4. Hospital Discharge Data Set (HD) 2001-2005, RI Department of Health
5. RI Vital Statistics – Birth & Death Files – 1995-2005, RI Department of Health
6. Pregnancy Risk Assessment Monitoring System (PRAMS) 2002-2004, RI Department of Health

*MMIS is included even though there is no comparison data on other insurance groups

TYPES OF MEASURES

Health Indicators in this report provide measures in the following areas:

- Demographic Characteristics
- Access to Health Care
- Utilization
- Health Status
- Social Measure

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

DEMOGRAPHIC CHARACTERISTICS				
Indicator #	Health Indicator	Years Available	Data Set	Page #
IV - 4	Percent of Hospitalizations to Children	2001 - 2004	Hospital Discharge	39
IV - 5	Percent of Hospitalizations to Females	2001 - 2004	Hospital Discharge	40
IV - 6	Percent of Hospitalizations to Minorities	2001 - 2004	Hospital Discharge	40
IV - 8	Percent of Hospital Admissions for Newborn Deliveries	2001 - 2004	Hospital Discharge	40
V - 2	Total Number of Teen Births by Health Insurance Coverage	1995 - 2005	Vital Statistics Birth File	49
V - 3	Percent of Total Births to Teenagers by Health Insurance Coverage	1995 - 2005	Vital Statistics Birth File	49
V - 5	Percent of Births to Older Women by Health Insurance Coverage	1995 - 2005	Vital Statistics Birth File	49
V - 6	Percent of Births to Women who are Immigrants by Health Insurance Coverage	1995 - 2005	Vital Statistics Birth File	50
V - 7	Percent of Births to Hispanic Women by Health Insurance Coverage	1995 - 2005	Vital Statistics Birth File	50
V - 8	Percent of Births to Black Women by Health Insurance Coverage	1995 - 2005	Vital Statistics Birth File	50

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

ACCESS TO HEALTH CARE				
Indicator #	Health Indicator	Years Available	Data Set	Page #
II – 2	Percent of Uninsured Rhode Islanders by Age	1995 – 2005	CPS, Census	30
II – 9	Percent of Rhode Islanders with Employer Based Coverage (<65)	1995 – 2005	CPS, Census	30
II - 10	Percent of Rhode Islanders with Medicaid Coverage (<65)	1995 – 2005	CPS, Census	30
III – 1	Percent of Rhode Islanders Who Couldn't See Doctor Due to Cost (ages 18-64) by Health Insurance Coverage	1996 – 2005	BRFSS	36
III – 2	Percent of Rhode Islanders Who Had a Routine Check-up in Past Year (ages 18-64) by Health Insurance Coverage	1996 – 2005	BRFSS	36
IV - 7	Percent of Emergency Hospital Admissions	2001 – 2005	Hospital Discharge	40
IV – 11	Rate of Hospitalizations for Ambulatory Care Sensitive Conditions (ACS) by Age Group and Health Insurance Coverage	2001 – 2005	Hospital Discharge	41
V - 10	Percent of Women Who Began Prenatal Care in First Trimester by Health Insurance Coverage	1993 – 2005	Vital Statistics Birth File	50
V - 11	Percent of Women Who Received Adequate/Adequate+ Prenatal Care by Health Insurance Coverage	1993 - 2005	Vital Statistics Birth File	50

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

ACCESS TO HEALTH CARE

Indicator #	Health Indicator	Years Available	Data Set	Page #
VI - 2	Percent of New Mothers Using Contraception by Health Insurance Coverage	2002 – 2004	Prenatal Risk and Monitoring System (PRAMS)	59
VI - 3	Percent of Mothers Who Had Postpartum Checkup by Health Insurance Coverage	2002 - 2004	Prenatal Risk and Monitoring System (PRAMS)	59

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

UTILIZATION				
Indicator #	Health Indicator	Years Available	Data Set	Page #
I - 2	Physician Office Visit - Rate per 1000 by Medicaid Program Group	2002 – 2005	Medicaid Management Information System (MMIS) – Medicaid Research File (MRF)	20
I - 3	Emergency Department Visit Rate per 1000 by Medicaid Program Group	2002 – 2005	MMIS – MRF File	20
I - 4	Hospitalization Rate per 1000 by Medicaid Program Group	2002 – 2005	MMIS – MRF File	20
I - 15	Dental Visit Rate by Medicaid Program Group	2002 - 2005	MMIS – MRF File	23

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

HEALTH STATUS				
Indicator #	Health Indicator	Years Available	Data Set	Page #
I – (5-9)	Hospital Length of Stay by Medicaid Program Group (includes mean, median, and #days	2002 – 2005	MRF – MMIS File	21
I – 10	Percent of Hospitalizations with any Diagnosis of Mental Disorder by Medicaid Program Group	2002 – 2005	MRF – MMIS File	22
I - 11	Any Diagnosis of Depression Rate by Medicaid Program Group	2002 – 2005	MRF – MMIS File	22
I – 12	Any Diagnosis of Asthma Rate by Medicaid Program Group	2002 – 2005	MRF – MMIS File	22
I – 13	Any Diagnosis of Diabetes Rate by Medicaid Program Group	2002 – 2005	MRF – MMIS File	23
I - 14	Any Diagnosis of Substance Abuse Rate by Medicaid Program Group	2002 – 2005	MRF – MMIS File	23
IV – (9-10)	Percent of Hospitalizations with Primary Diagnosis of Mental Disorder by Age Group and Health Insurance Coverage	2001 – 2004	Hospital Discharge	41
IV - (13-16)	Percent of Hospitalizations - >7 or >30 Days by Age Group and Health Insurance Coverage	2001 – 2004	Hospital Discharge	42
IV – (17-18)	Average Length of Stay for Hospitalizations in Days by Age Group and Health Insurance Coverage	2001 – 2004	Hospital Discharge	43
V – 4	Percent of Second Time Births to Teen Mothers by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	49

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

HEALTH STATUS				
Indicator #	Health Indicator	Years Available	Data Set	Page #
V - 9	Percent of RI Births to Women with High Parity (>3) by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	50
V – 12	Percent of Pregnant Women Who Smoke Cigarettes by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	51
V – 13	Percent of Women with Short Interbirth Interval (<18 months) by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	51
V – 14	Percent of Cesarean Births by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	51
V – 15	Percent of Low Birthweight Infants (<2500 grams) by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	51
V – 16	Percent of Very Low Birthweight Infants (<1500 grams) by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	51
V – 17	Percent of Premature Births (<37 weeks) by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	52
V – 18	Percent of Multiple Births by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth File	52
V – 19	Neonatal Mortality (<28 days) by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth & Death Files	52
V – 20	Postneonatal Mortality (28-365 days) by Health Insurance Coverage	1995 – 2005	Vital Statistics Birth & Death Files	52
V - 21	Infant Mortality (<1 year) by Health Insurance Coverage	1995 - 2005	Vital Statistics Birth & Death Files	52

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

HEALTH STATUS				
VI - 1	Percent of RI Mothers Who Breastfed by Health Insurance Coverage	2002 – 2004	PRAMS	59
VI-8	Percent of Women Who have Moderate/Severe Postpartum Depression By Health Insurance Coverage	2002 - 2004	PRAMS	60

LIST OF HEALTH INDICATORS FOR RHODE ISLANDERS BY TYPE OF MEASURE

SOCIAL MEASURE				
Indicator #	Health Indicator	Years Available	Data Set	Page #
VI – 4	Percent of Pregnant Women Who Moved During Pregnancy by Health Insurance Coverage	2002 – 2004	PRAMS	59
VI - 5	Percent of Pregnant Women Who were Homeless During Pregnancy by Health Insurance Coverage	2002 – 2004	PRAMS	59
VI - 6	Percent of Pregnant Women Who Couldn't Pay Bills During Pregnancy by Health Insurance Coverage	2002 – 2004	PRAMS	59
VI - 7	Percent of Pregnant Women Who Argued More With Husband/Partner During Pregnancy by Health Insurance Coverage	2002 – 2004	PRAMS	60
VI - 9	Percent of Pregnant Women Whose Pregnancies are Unplanned by Health Insurance Coverage	2002 - 2004	PRAMS	60

Section Ia: List of Health Indicators for Rhode Island Children on Medicaid <21 years old by Medicaid Program Group SFY 2002 – 2005: MMIS – MRF File	
1) Number Persons (365 days enrolled = one person)	
2) Physician Office Visit - Rate per 1000	
3) Emergency Department Visit Rate per 1000	
4) Hospitalization Rate per 1000	
5) Total Number Hospital Days	
6) Hospital Mean LOS	
7) Hospital Median LOS	
8) Percent of Hospital Stays > 7 Days	
9) Percent of Hospital Stays > 30 Days	
10) Percent of Hospitalizations with any Diagnosis of Mental Disorder	
11) Any Diagnosis of Depression Rate	
12) Any Diagnosis of Asthma Rate	
13) Any Diagnosis of Diabetes Rate	
14) Any Diagnosis of Substance Abuse Rate	
15) Dental Visit Rate	

Data Source: MMIS/Medicaid Research Files (MRF) ages <21, 2002-2005

Technical Notes: Appendix 1 & 2 (p. 63-79) - MRF Indicator Specifications include definition of physician office visit, emergency department visit and hospitalizations. Hospitalizations do not include births. Disease rates were calculated from all professional/outpatient and inpatient/institutional claims/encounter.

Section Ib: Health Indicator Data Table for Rhode Island Children on Medicaid <21 years old by Medicaid Program Group SFY 2002-2005				
	SFY 2002	SFY 2003	SFY 2004	SFY 2005
1) Number Persons (365 days enrolled = one person)				
Children on SSI	5,243	5,401	5,479	5,658
Foster Children	2,303	2,386	2,240	2,366
RIte Care Children	79,148	79,640	80,614	80,999
2) Physician Office Visit - Rate per 1000				
Children on SSI	3,660.1	3,814.5	3,799.4	3,420.3
Foster Children	3,192.4	3,673.5	4,138.8	3,807.3
RIte Care Children	3,415.1	3,510.8	3,651.4	3,616.5
3) Emergency Department Visit - Rate per 1000				
Children on SSI	689.5	673.8	635.9	520.1
Foster Children	399.0	399.8	514.3	493.7
RIte Care Children	281.0	303.7	411.4	404.1
4) Hospitalization - Rate per 1000 (does not include births)				
Children on SSI	165.9	166.1	173.9	150.9
Foster Children	162.4	142.5	170.5	156.8
RIte Care Children	95.1	104.3	106.8	105.8

Data Source: MMIS/Medicaid Research Files (MRF) ages <21, 2002-2005

Definitions: Appendix 1 & 2 (p. 63-79) - MRF Indicator Specifications include definition of physician office visit, emergency department visit and hospitalizations.

	SFY 2002	SFY 2003	SFY 2004	SFY 2005
5) Total Number Hospital Days				
Children on SSI	13,787	15,653	15,510	14,829
Foster Children	7,515	7,284	5,685	5,994
RIte Care Children	27,046	28,057	30,655	36,914
6) Hospital Mean LOS				
Children on SSI	15.9	17.5	16.3	17.4
Foster Children	20.6	21.4	14.9	16.2
RIte Care Children	3.6	3.4	3.6	4.3
7) Hospital Median LOS				
Children on SSI	4.0	5.0	4.0	5.0
Foster Children	7.0	7.5	7.0	7.0
RIte Care Children	2.0	2.0	2.0	2.0
8) Percent of Hospital Stays > 7 Days				
Children on SSI	31.2	34.9	35.5	38.3
Foster Children	49.5	50.0	46.9	49.3
RIte Care Children	5.8	5.8	6.0	8.3

Data Source: MMIS/Medicaid Research Files (MRF) ages <21, 2002-2005

Definitions: Appendix 1 & 2 (p. 63-79) - MRF Indicator Specifications include definition of physician office visit, emergency department visit and hospitalizations.

	SFY 2002	SFY 2003	SFY 2004	SFY 2005
9) Percent of Hospital Stays > 30 Days				
Children on SSI	9.0	10.4	11.9	11.7
Foster Children	13.6	14.1	11.0	13.8
RIte Care Children	0.8	0.5	0.8	1.5
10) Percent of Hospitalizations with any Diagnosis of Mental Disorder				
Children on SSI	39.3	41.0	44.7	47.0
Foster Children	67.9	67.6	63.9	55.3
RIte Care Children	7.9	7.8	8.2	8.6
11) Diagnosis of Depression - Rate per 1000 Children *				
Children on SSI	99.2	102.8	125.6	137.3
Foster Children	195.8	214.6	242.9	235.0
RIte Care Children	28.1	31.9	35.9	37.6
12) Diagnosis of Asthma - Rate per 1000 Children *				
Children on SSI	98.0	107.4	129.6	128.0
Foster Children	96.8	111.5	142.4	138.6
RIte Care Children	89.9	97.0	103.9	106.3

Data Source: MMIS/Medicaid Research Files (MRF) ages <21, 2002-2005

Definitions: Appendix 1 & 2 (p. 63-79) - MRF Indicator Specifications include definition of physician office visit, emergency department visit and hospitalizations.

* Disease rates were calculated using ICD9 codes from all professional/outpatient and inpatient/institutional claims/encounter.

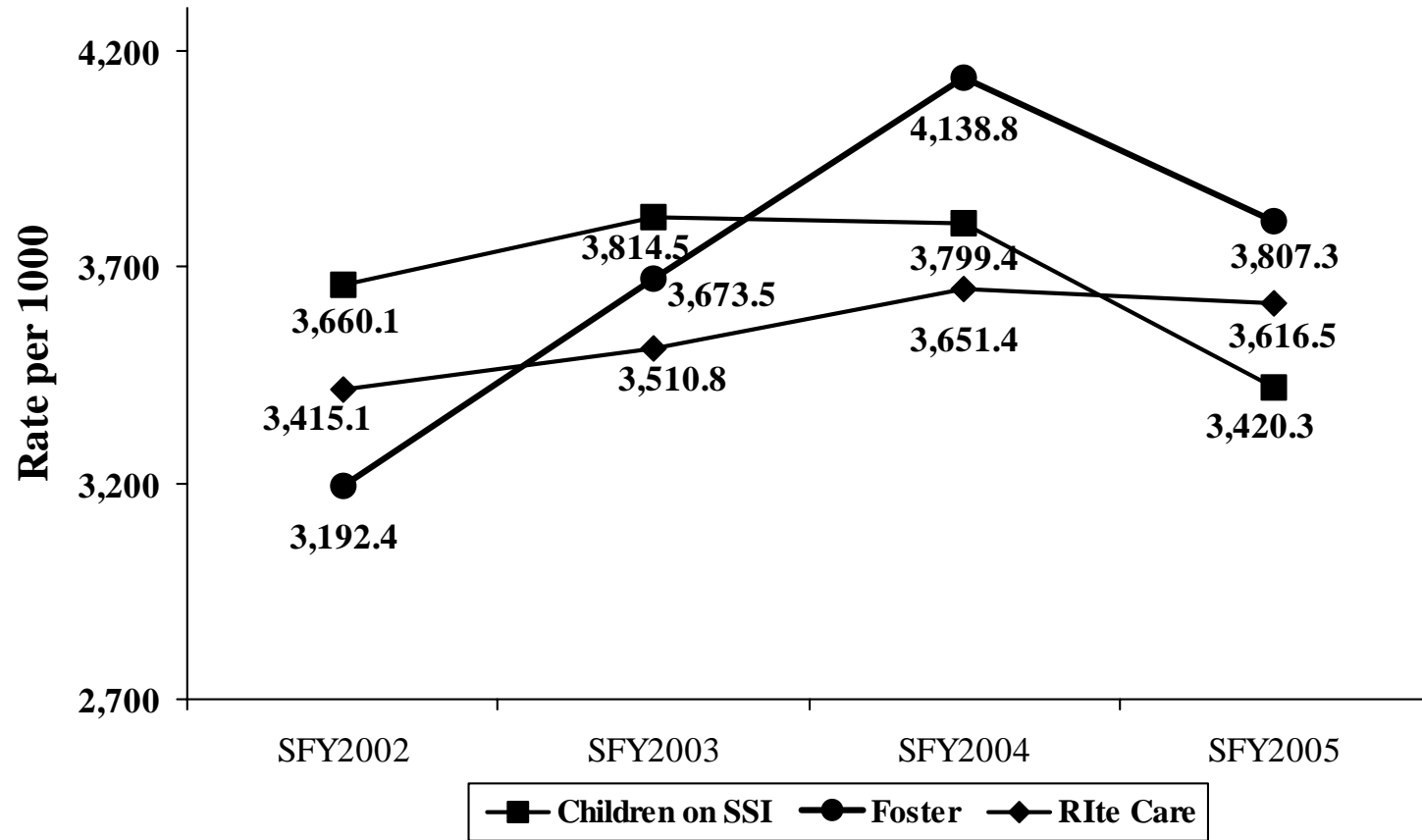
	SFY 2002	SFY 2003	SFY 2004	SFY 2005
13) Diagnosis of Diabetes - Rate per 1000 Children *				
Children on SSI	10.5	11.8	12.6	14.1
Foster Children	5.6	4.6	2.7	5.9
RIte Care Children	3.3	3.1	3.4	3.5
14) Diagnosis of Substance Abuse - Rate per 1000 Children *				
Children on SSI	28.4	28.3	32.5	33.4
Foster Children	112.5	137.0	160.3	158.9
RIte Care Children	9.8	10.6	11.4	11.2
15) Dental Claims - Rate per 1000 Children				
Children on SSI	379.7	371.8	407.0	429.3
Foster Children	491.5	516.3	570.1	548.6
RIte Care Children	411.1	410.5	417.0	437.3

Data Source: MMIS/Medicaid Research Files (MRF) ages <21, 2002-2005

Definitions: Appendix 1 & 2 (p. 63-79) - MRF Indicator Specifications include definition of physician office visit, emergency department visit and hospitalizations.

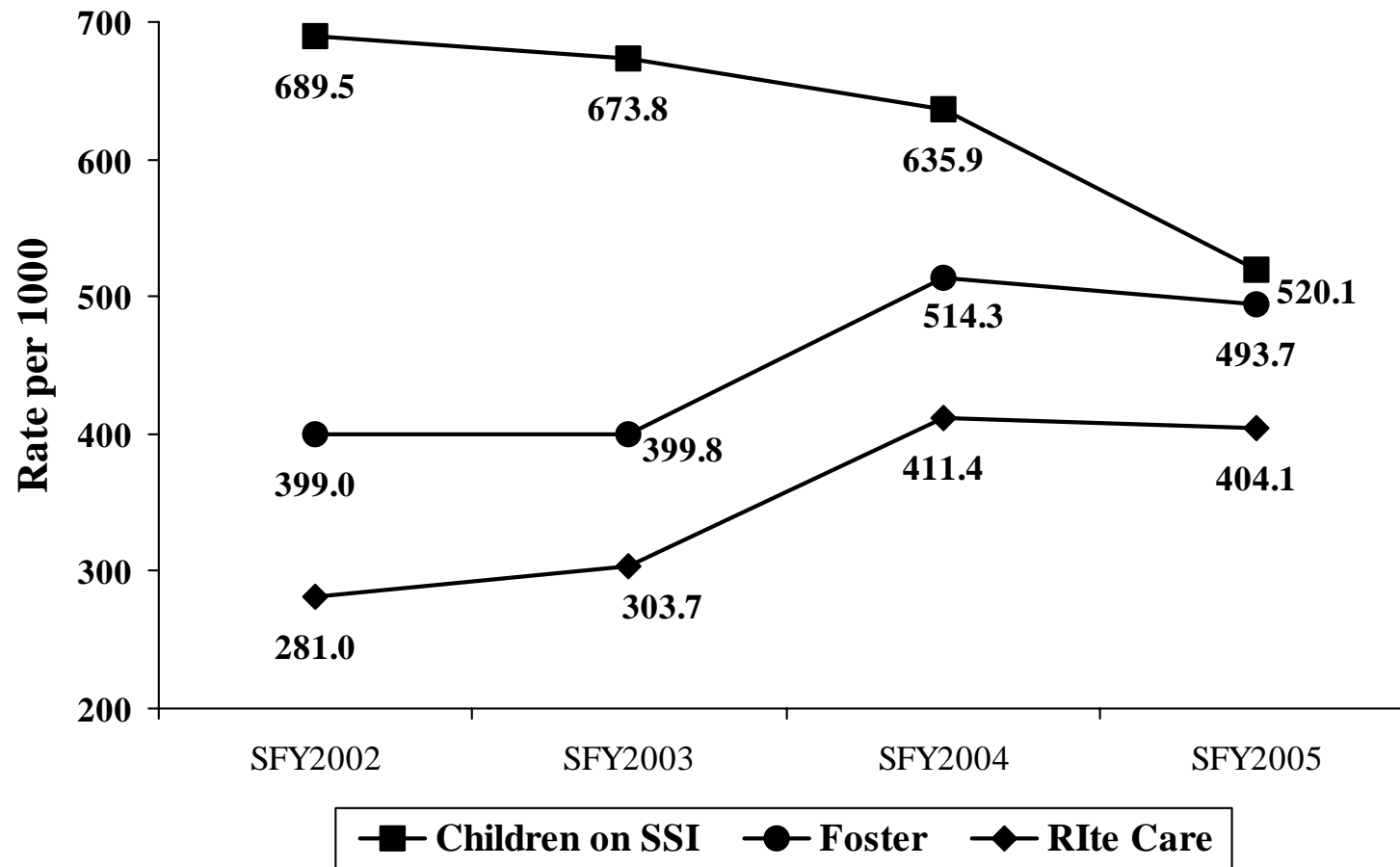
* Disease rates were calculated using ICD9 codes from all professional/outpatient and inpatient/institutional claims/encounter.

**Figure 1: Physician Office Visit Rate per 1000
by Child Medicaid Program Group (<21)**



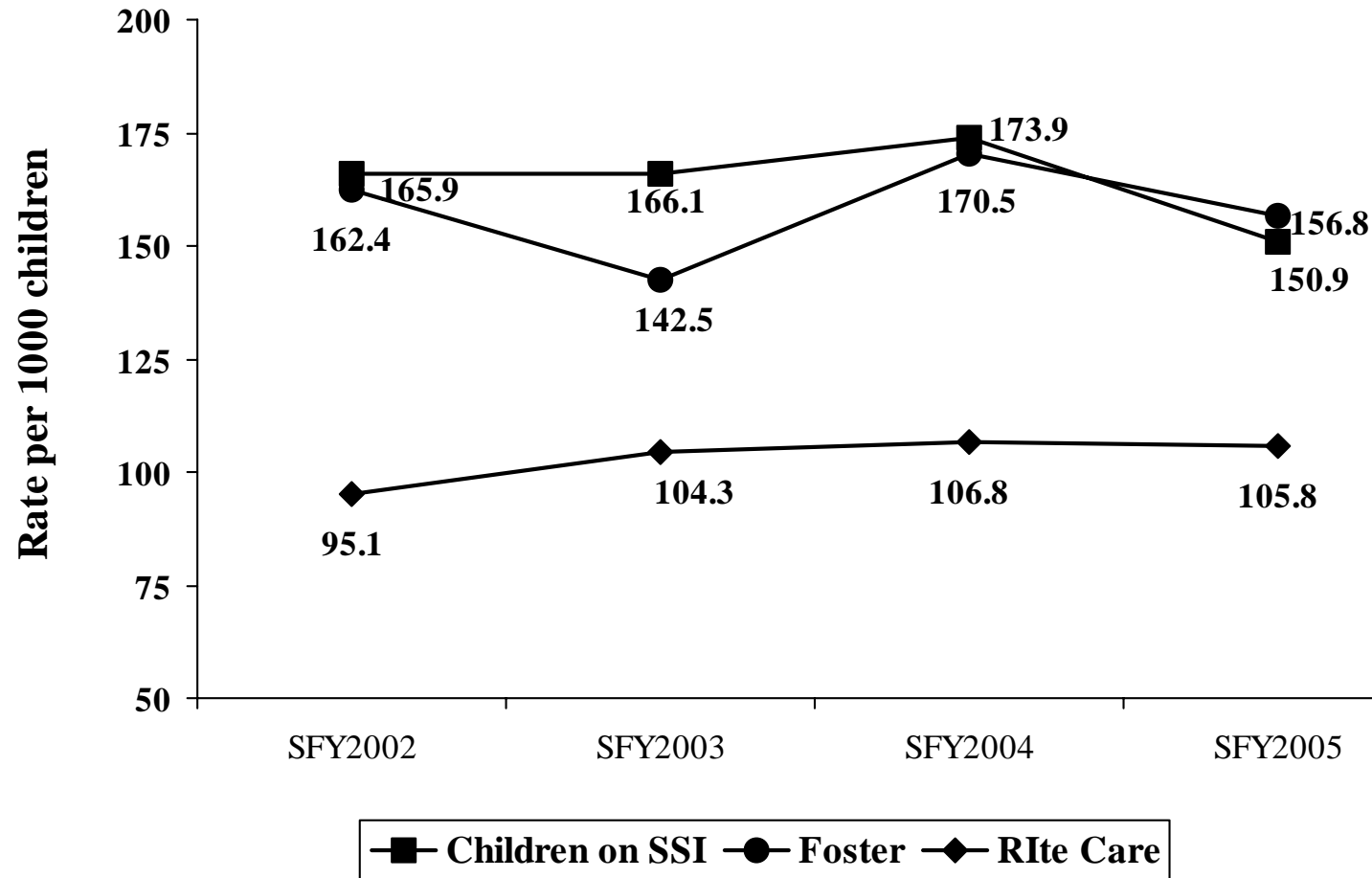
Data Source: MMIS/Medicaid Research Files (MRF) Ages <21, 2002-2005

**Figure 2: Emergency Department Visit Rate per 1000
by Child Medicaid Program Group (<21)**



Data Source: MMIS/Medicaid Research Files (MRF) Ages <21, 2002-2005

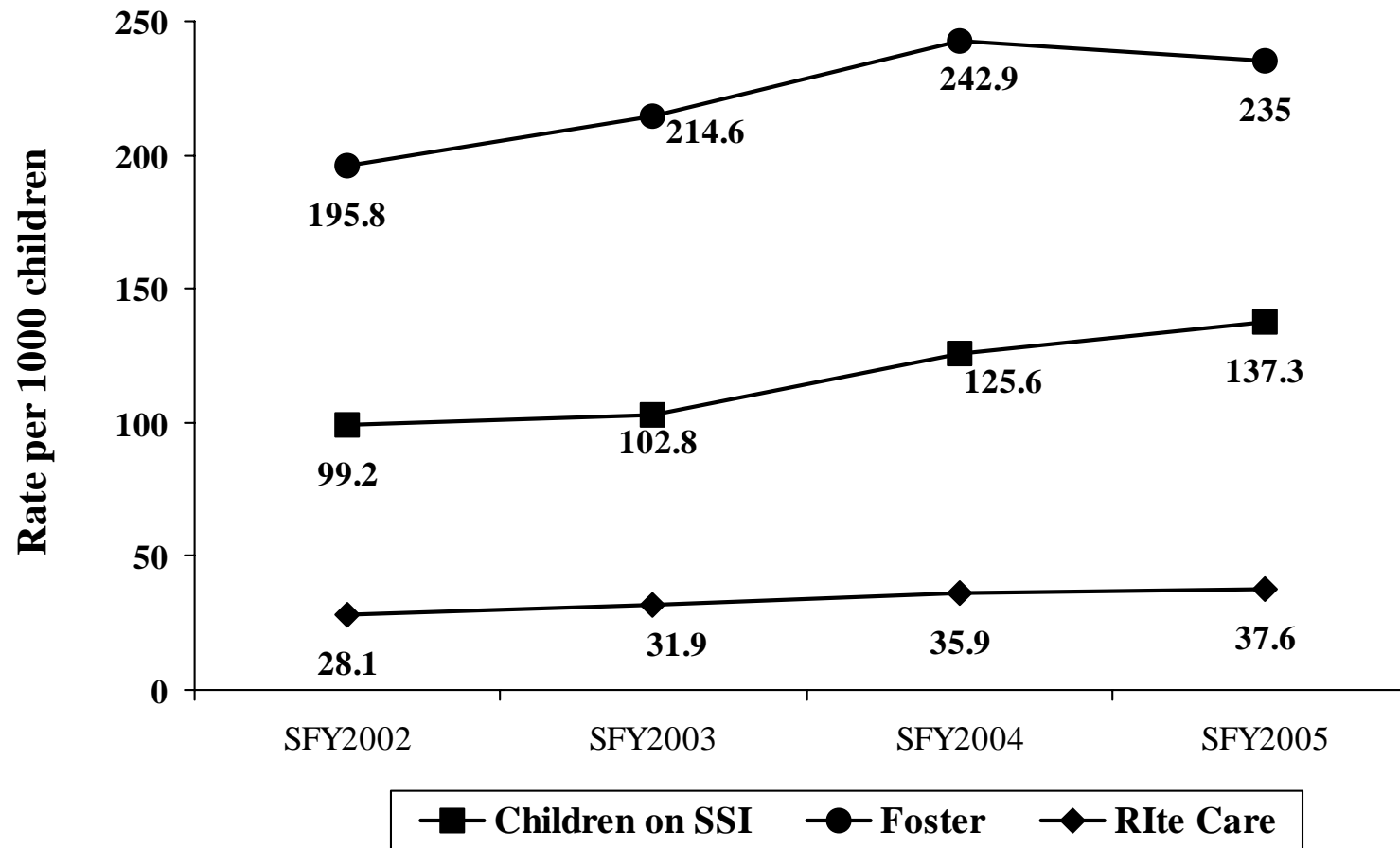
**Figure 3: Hospitalization Rate
by Child Medicaid Program Group (<21)**



Note: Does not include births

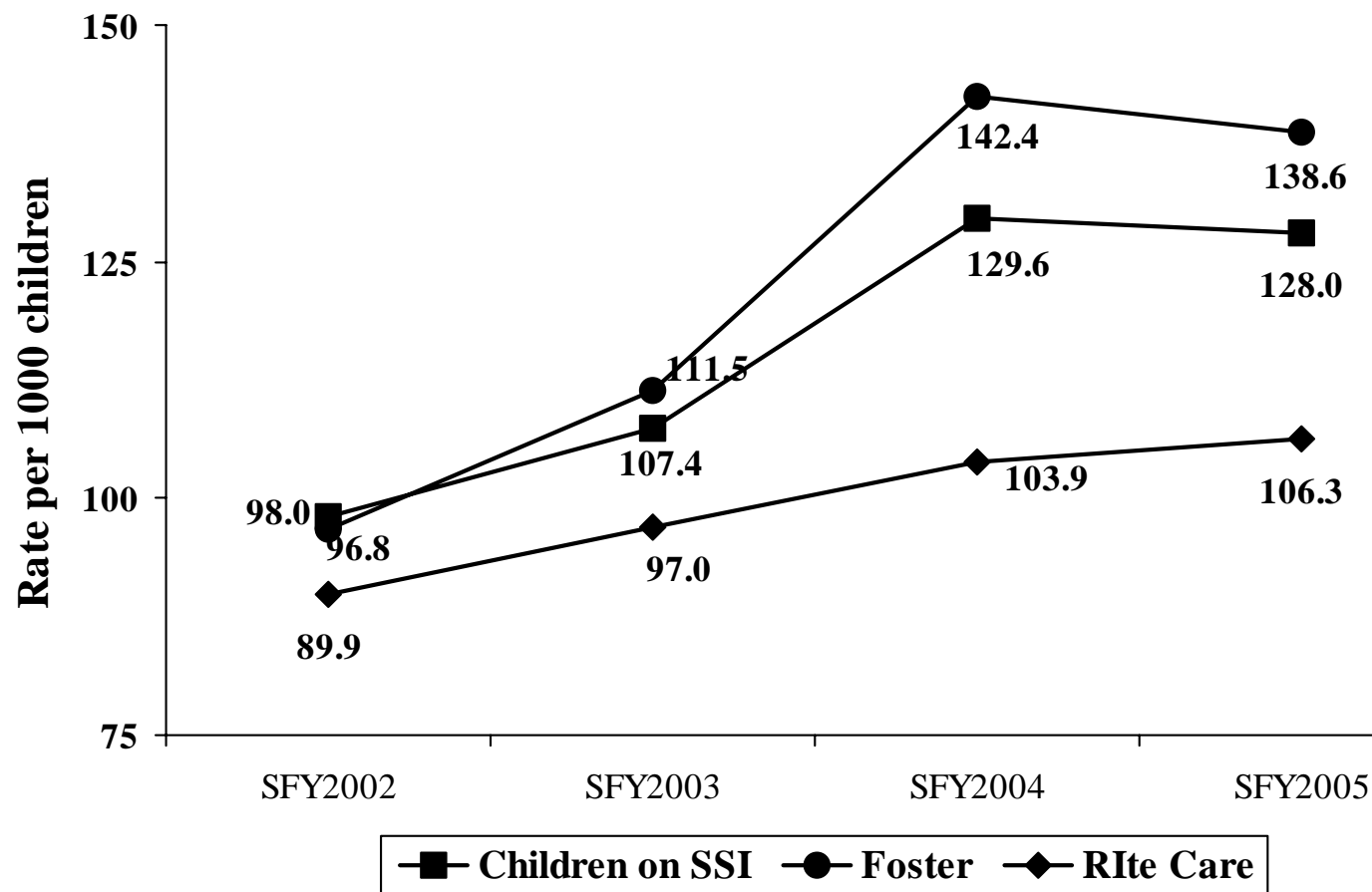
Data Source: MMIS/Medicaid Research Files (MRF) Ages <21, 2002-2005

**Figure 4: Any Diagnosis of Depression Rate by Child
Medicaid by Program Group (<21)
SFY2002 – SFY2004**



Data Source: MMIS/Medicaid Research Files (MRF) Ages <21, 2002-2005

**Figure 5: Any Diagnosis of Asthma Rate
by Child Medicaid Program Group (<21)**



Data Source: MMIS/Medicaid Research Files (MRF) Ages <21, 2002-2005

Section IIa: List of Health Indicators for Uninsured Rhode Islanders by Age 1995-2004: CPS Census	
1) Total Number Uninsured – all ages	
2) Percent Uninsured – all ages	
3) Rhode Island Uninsured Ranking - all ages	
4) Number Uninsured Children (<18)	
5) Percent Uninsured Children (<18)	
6) Rhode Island Uninsured Ranking (<18)	
7) Number Uninsured Rhode Islanders (<65)	
8) Percent Uninsured Rhode Islanders (<65)	
9) Percent of Rhode Islanders with Employer Based Coverage (<65)	
10) Percent of Rhode Islanders with Medicaid Coverage (<65)	

Data Source: Current Population Survey, Census 1995 – 2004

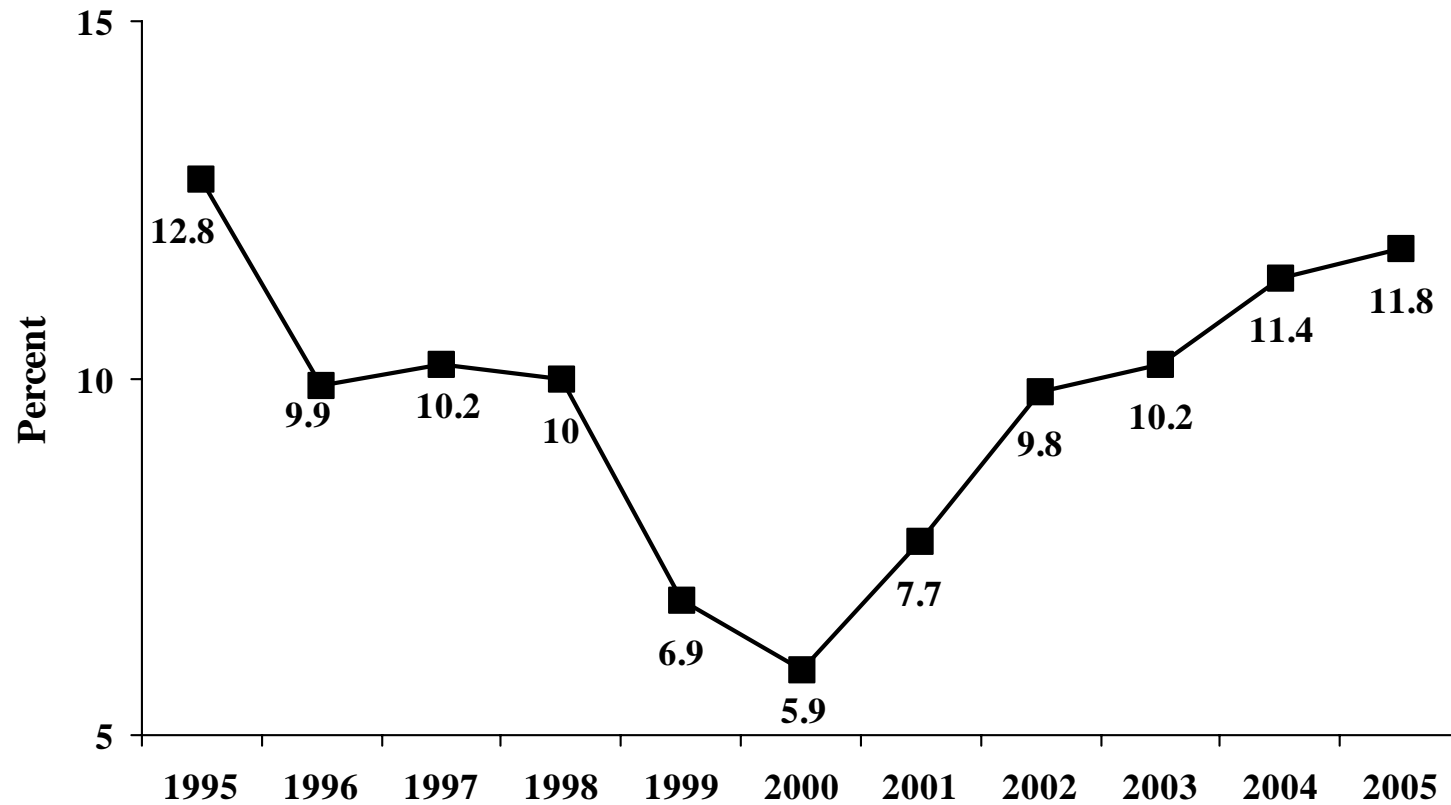
Technical Notes: September Estimates

Section IIb: Health Indicator Data Table for Uninsured Rhode Islanders by Age 1995-2005

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
1) Total Number Uninsured – all ages	124,000	93,000	96,000	94,000	68,000	76,000	79,000	104,000	106,000	120,000	125,000
2) Percent Uninsured – all ages	12.8	9.9	10.2	10.0	6.9	5.9	7.7	9.8	10.2	11.4	11.8
3) Rhode Island Uninsured Ranking - all ages	6th	4th	5th	4th	1st	1st	1st	3rd	3 rd	9th	11 th
4) Number Uninsured Children (<18)	29,000	13,000	16,000	18,000	18,000	9,000	11,000	11,000	13,000	19,000	19,000
5) Percent Uninsured Children (<18)	12.5	6.3	7.9	7.6	6.9	2.5	4.5	4.7	5.2	7.4	7.7
6) Rhode Island Uninsured Ranking (<18)	25th	2nd	1st	2nd	3rd	1st	3rd	2nd	2nd	11th	12 th
7) Number Uninsured Rhode Islanders (<65)	80,400	77,700	78,600	81,900	84,400	88,300	88,000	91,400	90,900	92,500	124,000
8) Percent Uninsured Islanders (<65)	15.4	12.0	12.3	11.5	8.1	6.9	9.0	11.3	11.7	12.9	13.3
9) Percent of Rhode Islanders with Employer Based Coverage (<65)	69.1	72.8	70.2	72.8	75.9	77.7	73.9	69.3	70.4	67.2	67.6
10) Percent of Rhode Islanders with Medicaid Coverage (<65)	9.0	12.0	12.3	8.5	10.7	11.0	13.9	16.5	15.8	17.4	16.9

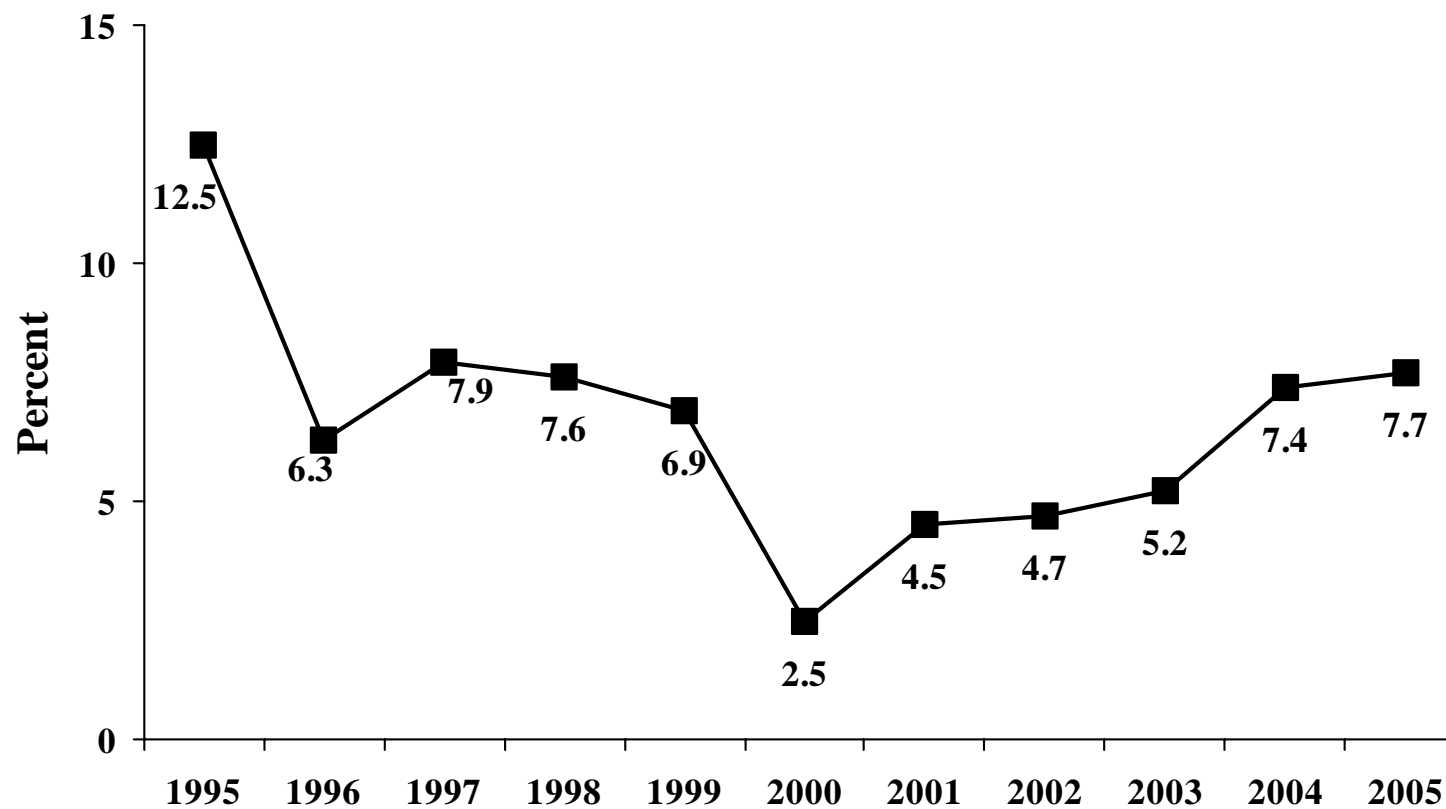
Data Source: Census, Current Population Survey, 1995-2005 – www.census.gov/hhes/www/hlthins/historic/index - September estimate

Figure 6: Percent of Uninsured Rhode Islanders All Ages



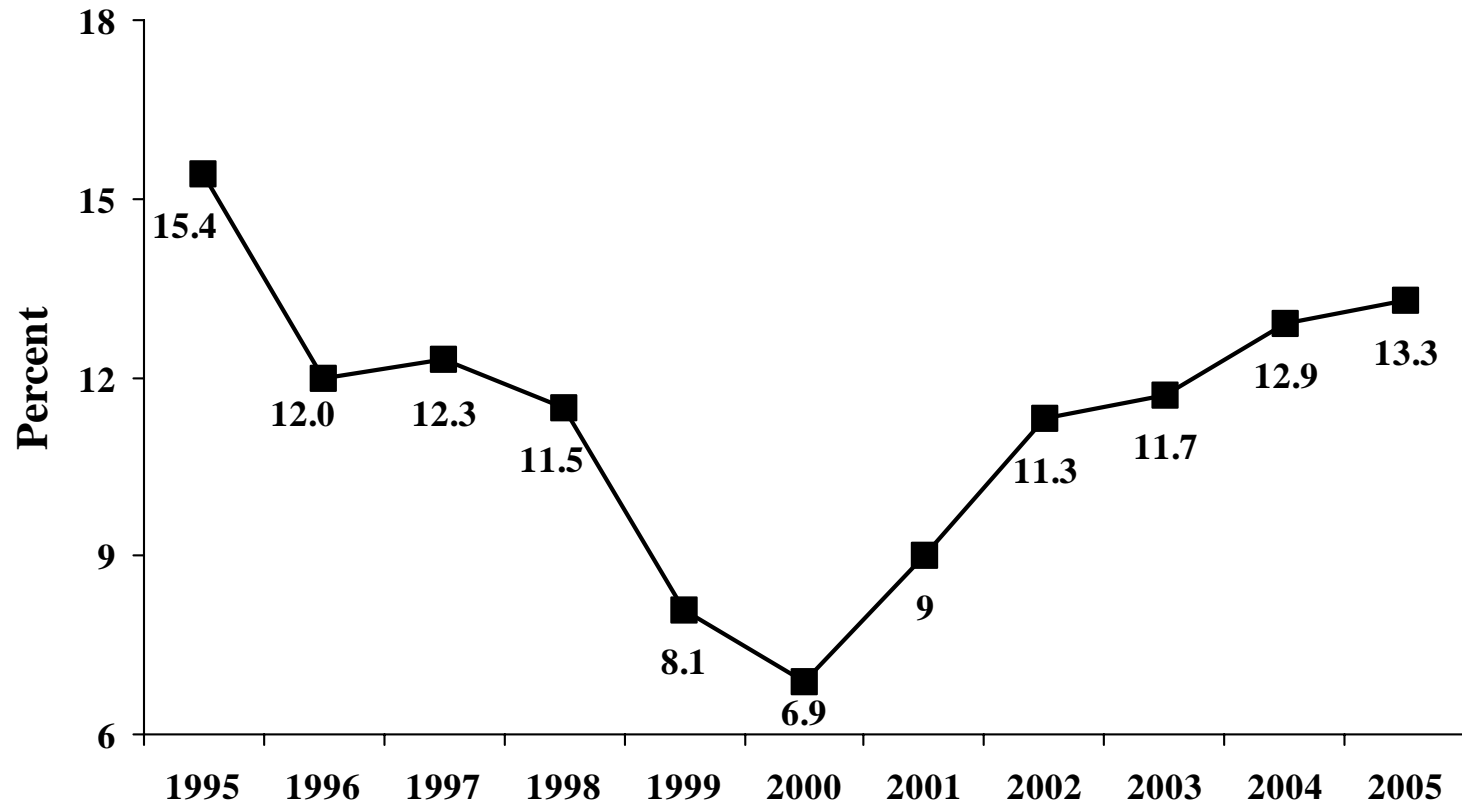
Data Source: Census, Current Population Survey, September Estimate, 1995-2005

Figure 7: Percent of Uninsured RI Children (<18)



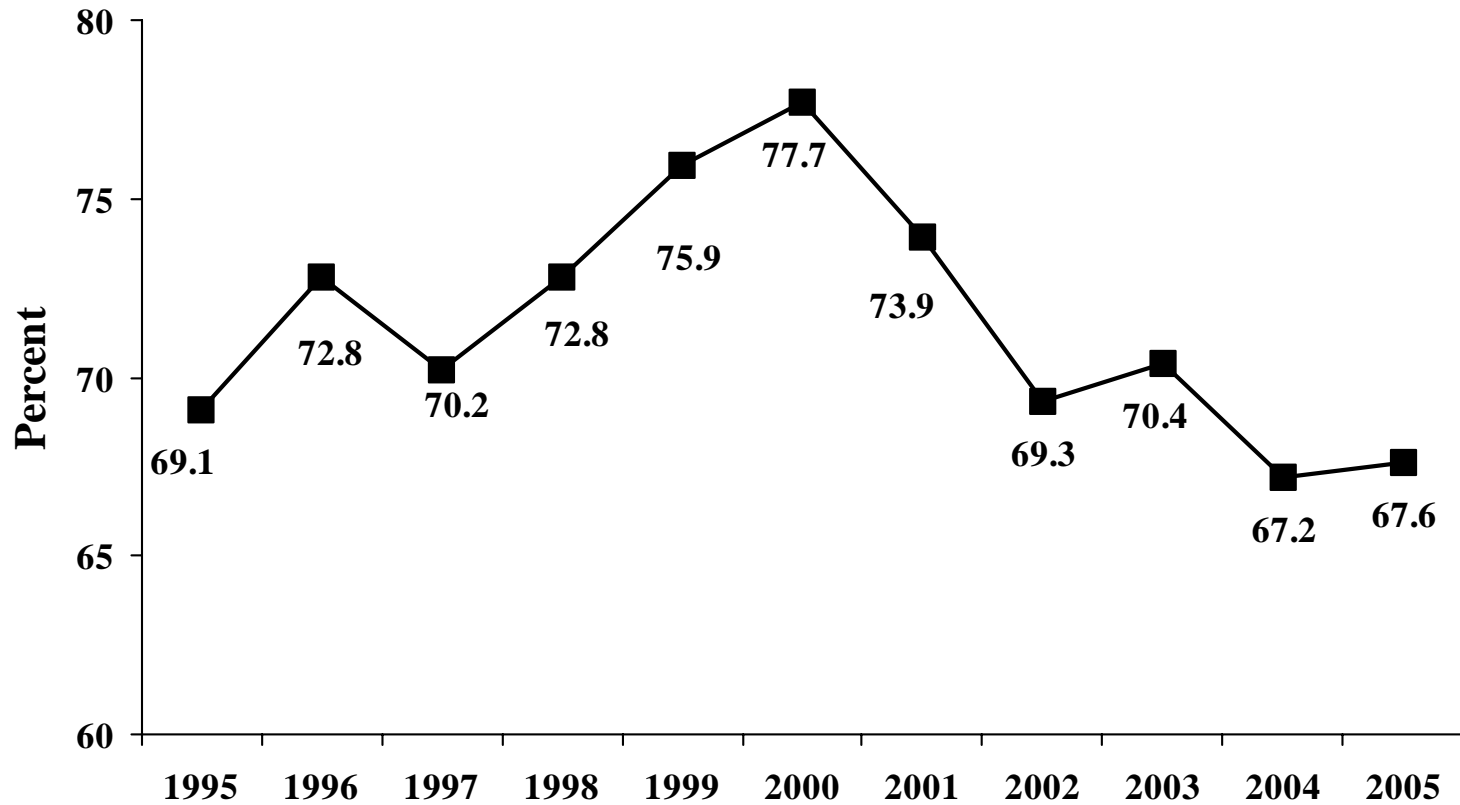
Data Source: Census, Current Population Survey, September Estimate, 1995-2005

Figure 8: Percent of Uninsured Rhode Islanders <65



Data Source: Census, Current Population Survey, September Estimate, 1995-2005

**Figure 9: Percent of Rhode Islanders
with Employer Based Coverage (<65)**



Data Source: Census, Current Population Survey, September Estimate, 1995-2005

Section IIIa: List of Health Indicators for Access to Health Care for Rhode Islanders by Health Coverage* CY 1996 – 2005: BRFSS	
1) Percent of Rhode Islanders Who Couldn't See Doctor Due to Cost (18-64)	
2) Percent of Rhode Islanders Who Had a Routine Check-up in Past Year (18-64)	

Data Source: Data Source: Behavioral Risk Factor Surveillance System (BRFSS), RI Department of Health 1996-2005

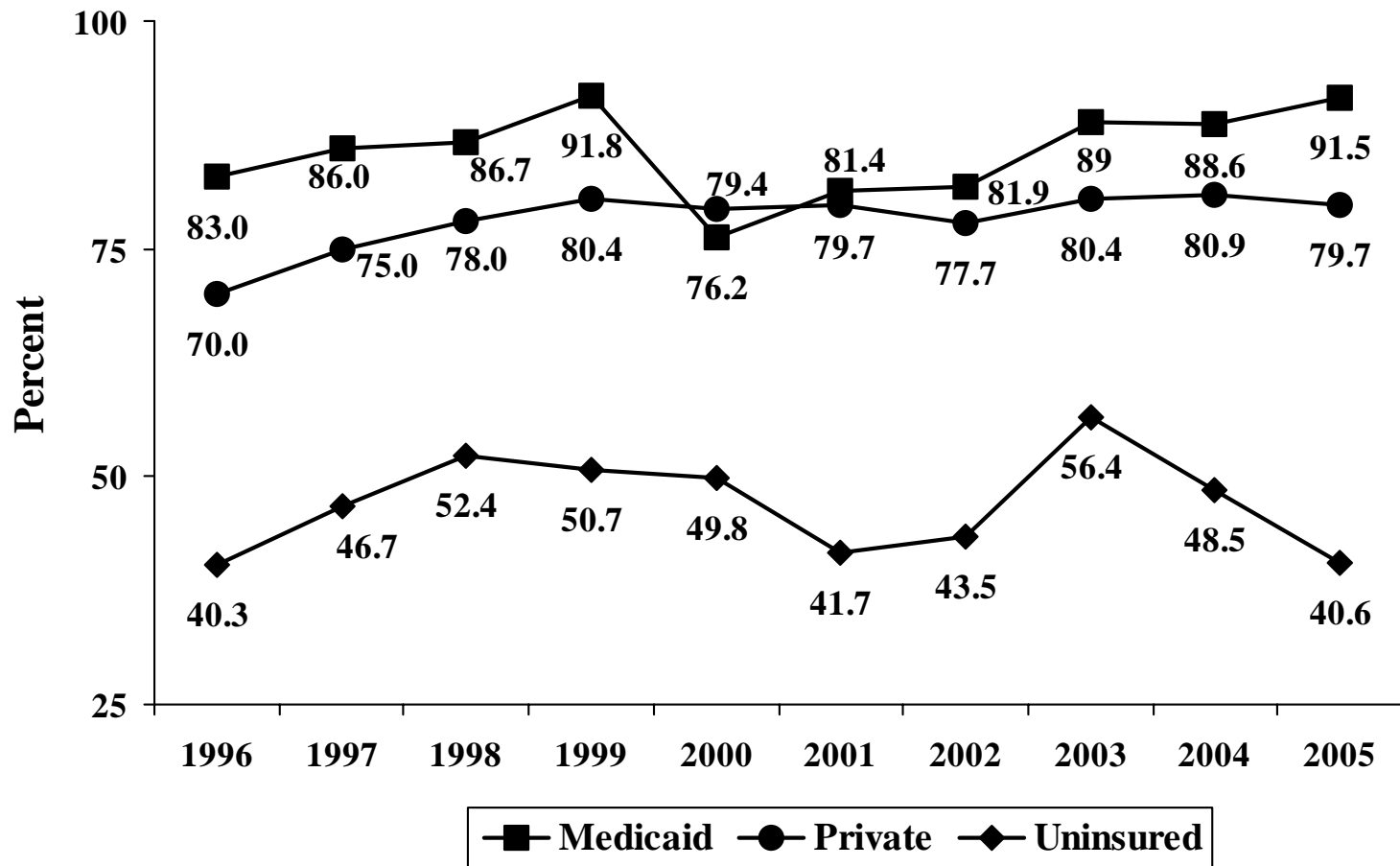
Technical Notes: Health Care Coverage is measured at the time of interview (point in time)

Section IIIb: Health Indicator Data Table for Access to Health Care by Health Coverage 1996-2005

	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
1) Percent of Rhode Islanders Who Couldn't See Doctor Due to Cost in Past Year (18-64)										
Fee-For-Service Medicaid	12.1	17.3	12.5	11.2	9.6	11.7	NA	9.3	15.3	16.5
Private	5.9	4.8	4.3	4.4	3.9	4.2	NA	5.4	4.9	5.5
Uninsured	40.1	40.3	40.8	36.7	40.7	31.9	NA	49.4	42.8	47.7
2) Percent of Rhode Islanders Who Had a Routine Check-up in Past Year (18-64)										
Fee-For-Service Medicaid	83.0	86.0	86.7	91.8	76.2	81.4	81.9	89.0	88.6	91.5
Private	70.0	75.0	78.0	80.4	79.4	79.7	77.7	80.4	80.9	79.7
Uninsured	40.3	46.7	52.4	50.7	49.8	41.7	43.5	56.4	48.5	40.6

Data Source: Behavioral Risk Factor Surveillance System (BRFSS), RI Department of Health, CY 1996-2005

**Figure 10: Percent of Rhode Islanders (18-64)
Who Had a Routine Check-Up in Past Year
by Health Insurance Coverage**



Data Source: Behavioral Risk Factor Surveillance System (BRFSS), RI Department of Health, 1996-2005

Section IVa: List of Health Indicators for Hospitalizations to Rhode Islanders <65 years old by Health Coverage CY 2001 – 2004: Hospital Discharge	
1) Total Number of Hospitalizations	
2) Total Number of Hospitalizations to Children < 18	
3) Total Number of Hospitalizations to Adults 18-64	
4) Percent of Hospitalizations to Children <18	
5) Percent of Hospitalizations to Females	
6) Percent of Hospitalizations to Minorities	
7) Percent of Emergency Hospital Admissions	
8) Percent of Hospital Admissions for Newborn Deliveries	
9) Percent of Hospitalizations with Primary Diagnosis of Mental Disorder for Children <18	
10) Percent of Hospitalizations with Primary Diagnosis of Mental Disorder for Adults 18-64	
11) Rate of Hospitalizations for Ambulatory Care Sensitive Conditions (ACS) for Children <18	
12) Rate of Hospitalizations for Ambulatory Care Sensitive Conditions (ACS) for Adults 18-64	
13) Percent of Hospitalizations - >7 Days for Children <18	
14) Percent of Hospitalizations - >7 Days for Adults 18-64	
15) Percent of Hospitalizations - >30 Days for Children <18	
16) Percent of Hospitalizations - >30 Days for Adults 18-64	
17) Average Length of Stay (LOS) for Hospitalizations in days for Children <18	
18) Average Length of Stay (LOS) for Hospitalizations in days for Adults 18-64	

Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, CY 2001-2004

Technical Notes: Statewide overnight hospitalizations for RI acute care hospitals. Includes births and deliveries.

Section IVb: Health Indicator Data Table for Hospitalizations to Rhode Islanders <65 years Old by Insurance Coverage CY 2001-2004				
	2001	2002	2003	2004
1) Total Number of RI Hospitalizations	69,102	73,391	78,176	77,708
Fee-For-Service Medicaid	8,911	8,815	9,551	9,840
RIte Care	13,768	14,352	15,295	14,740
Private Insurance	42,149	45,699	49,260	48,667
Uninsured	4,274	4,523	4,065	4,461
2) Total Number of Hospitalizations to Children <18				
Fee-For-Service Medicaid	2,002	1,863	1,966	1,745
RIte Care	7,085	7,142	7,780	7,547
Private Insurance	10,436	11,579	13,067	12,633
Uninsured	612	537	225	195
3) Total Number of Hospitalizations to Adults 18-64				
Fee-For-Service Medicaid	6,909	6,960	7,589	8,095
RIte Care	6,683	7,210	7,516	7,193
Private Insurance	31,713	34,116	36,193	36,032
Uninsured	3,662	3,984	3,840	4,266
4) Percent of Hospitalizations to Children <18				
Fee-For-Service Medicaid	22.5	21.1	20.6	17.7
RIte Care	51.5	49.8	50.9	51.2
Private Insurance	24.8	25.3	26.5	26.0
Uninsured	14.3	11.9	5.5	4.4

Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, CY 2001-2004

	2001	2002	2003	2004
5) Percent of Hospitalizations to Females				
Fee-For-Service Medicaid	54.9	54.8	57.3	56.5
RIt Care	69.4	69.8	70.8	69.7
Private Insurance	58.6	58.8	59.4	59.2
Uninsured	43.7	43.7	36.7	36.3
6) Percent of Hospitalizations to Minorities				
Fee-For-Service Medicaid	35.5	37.2	36.9	33.8
RIt Care	52.8	52.3	50.8	51.1
Private Insurance	13.3	13.2	14.0	13.9
Uninsured	32.9	32.2	32.8	34.4
7) Percent of Emergency Hospital Admissions				
Fee-For-Service Medicaid	58.2	58.8	57.2	56.8
RIt Care	24.4	23.9	23.3	24.1
Private Insurance	34.8	35.4	35.3	36.1
Uninsured	63.9	67.4	81.8	82.1
8) Percent of Hospital Admission for Newborn Deliveries				
Fee-For-Service Medicaid	7.1	7.5	7.1	7.0
RIt Care	29.8	30.7	31.4	30.8
Private Insurance	14.5	14.8	16.0	15.5
Uninsured	11.1	9.0	3.0	1.7

Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, CY 2001-2004

	2001	2002	2003	2004
9) Percent of Hospitalizations with Primary Diagnosis of Mental Disorder for Children <18 *				
Fee-For-Service Medicaid	17.5	13.5	21.5	22.5
RIte Care	3.2	4.2	3.5	3.9
Private Insurance	8.0	8.8	8.0	8.0
Uninsured	1.3	1.4	3.5	5.6
10) Percent of Hospitalizations with Primary Diagnosis of Mental Disorder for Adults 18-64 *				
Fee-For-Service Medicaid	32.8	31.8	34.4	36.5
RIte Care	6.4	5.9	6.0	4.8
Private Insurance	11.9	11.0	9.4	9.0
Uninsured	15.7	17.1	16.3	13.6
11) Percent of Hospitalizations for Ambulatory Care Sensitive Conditions (ACS) for Children <18**				
Fee-For-Service Medicaid	11.5	12.2	11.1	9.4
RIte Care	11.5	9.5	10.7	10.3
Private Insurance	8.9	8.6	8.9	8.8
Uninsured	6.7	5.6	13.3	14.9
12) Percent of Hospitalizations for Ambulatory Care Sensitive Conditions (ACS) for Adults 18-64 **				
Fee-For-Service Medicaid	14.0	14.1	14.3	13.9
RIte Care	4.8	5.0	4.9	4.6
Private Insurance	8.1	8.1	8.3	8.0
Uninsured	14.2	14.2	18.0	15.7

Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, CY 2001-2004

* Mental Disorder – ICD9 codes 290-319

**ACS Conditions include asthma, pneumonia, diabetes, gastroenteritis, hypertension, COPD, CHF, angina, PID, ENT, hypoglycemia

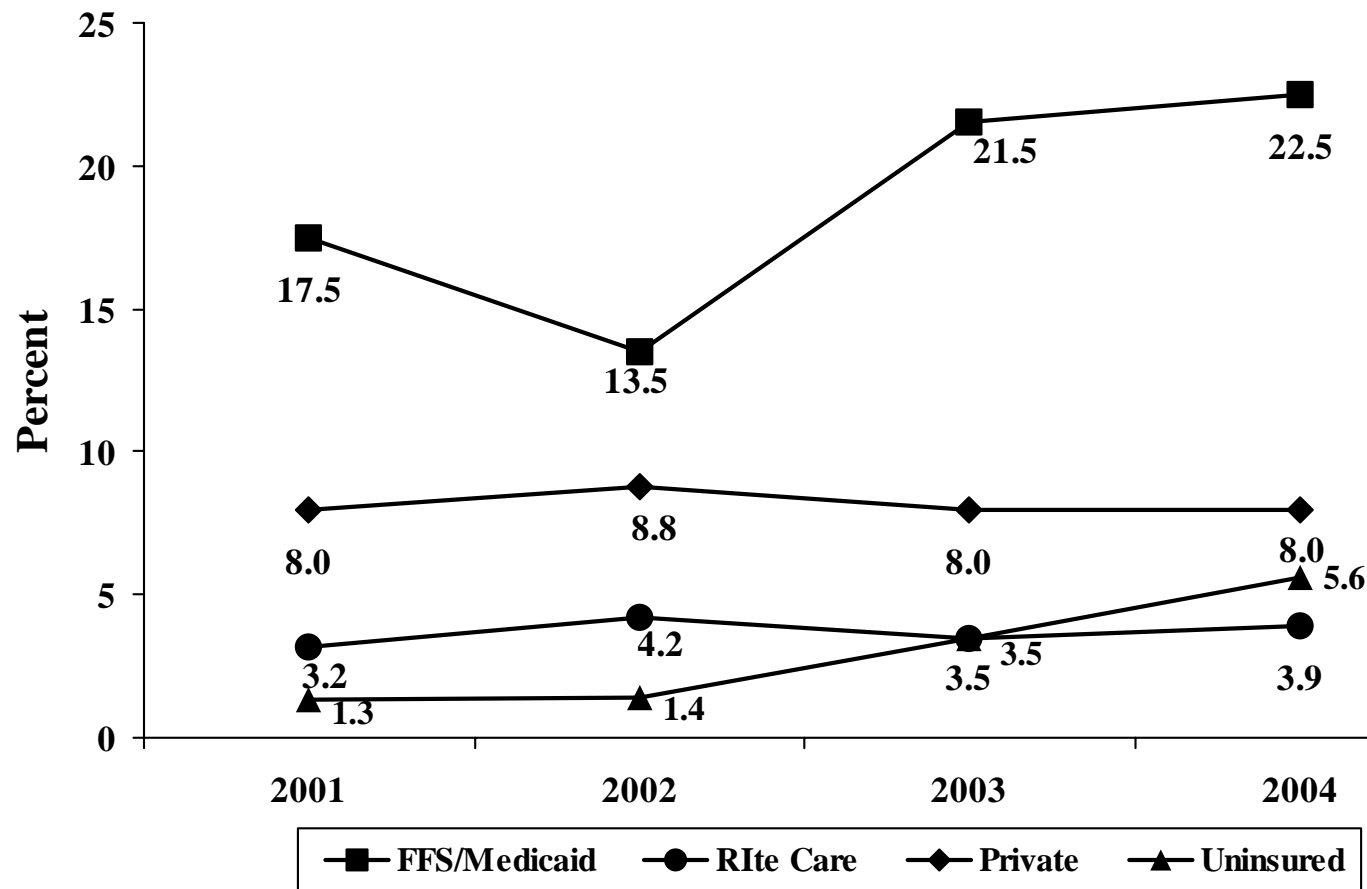
	2001	2002	2003	2004
13) Percent of Hospitalizations - >7 Days for Children <18				
Fee-For-Service Medicaid	28.9	26.8	31.5	32.7
RIte Care	6.3	6.6	6.6	7.4
Private Insurance	8.1	8.8	9.3	9.3
Uninsured	6.2	7.3	4.4	4.1
14) Percent of Hospitalizations - >7 Days for Adults 18-64				
Fee-For-Service Medicaid	25.4	24.4	25.2	25.5
RIte Care	5.8	4.8	5.0	4.7
Private Insurance	10.9	10.7	11.1	10.6
Uninsured	12.8	12.9	15.2	13.0
15) Percent of Hospitalizations - >30 Days for Children <18				
Fee-For-Service Medicaid	8.9	7.3	7.2	7.3
RIte Care	1.3	1.5	1.2	1.6
Private Insurance	1.2	1.3	1.6	1.5
Uninsured	1.0	1.5	0.0	0.0
16) Percent of Hospitalizations - >30 Days for Adults 18-64				
Fee-For-Service Medicaid	2.7	2.7	2.4	2.4
RIte Care	0.4	0.3	0.3	0.2
Private Insurance	0.7	0.7	0.8	0.7
Uninsured	0.9	0.6	1.0	1.2

Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, CY 2001-2004

	2001	2002	2003	2004
17) Average Length of Stay (LOS) in Days for Hospitalizations for Children <18				
Fee-For-Service Medicaid	12.6	11.2	11.3	10.9
RIte Care	3.8	4.1	3.8	4.3
Private Insurance	4.1	4.2	4.5	4.5
Uninsured	3.6	3.8	2.8	2.2
18) Average Length of Stay (LOS) in days for Hospitalizations for Adults 18-64				
Fee-For-Service Medicaid	7.0	7.1	6.9	7.1
RIte Care	3.4	3.3	3.3	3.3
Private Insurance	4.2	4.2	4.3	4.2
Uninsured	4.4	4.3	4.9	4.6

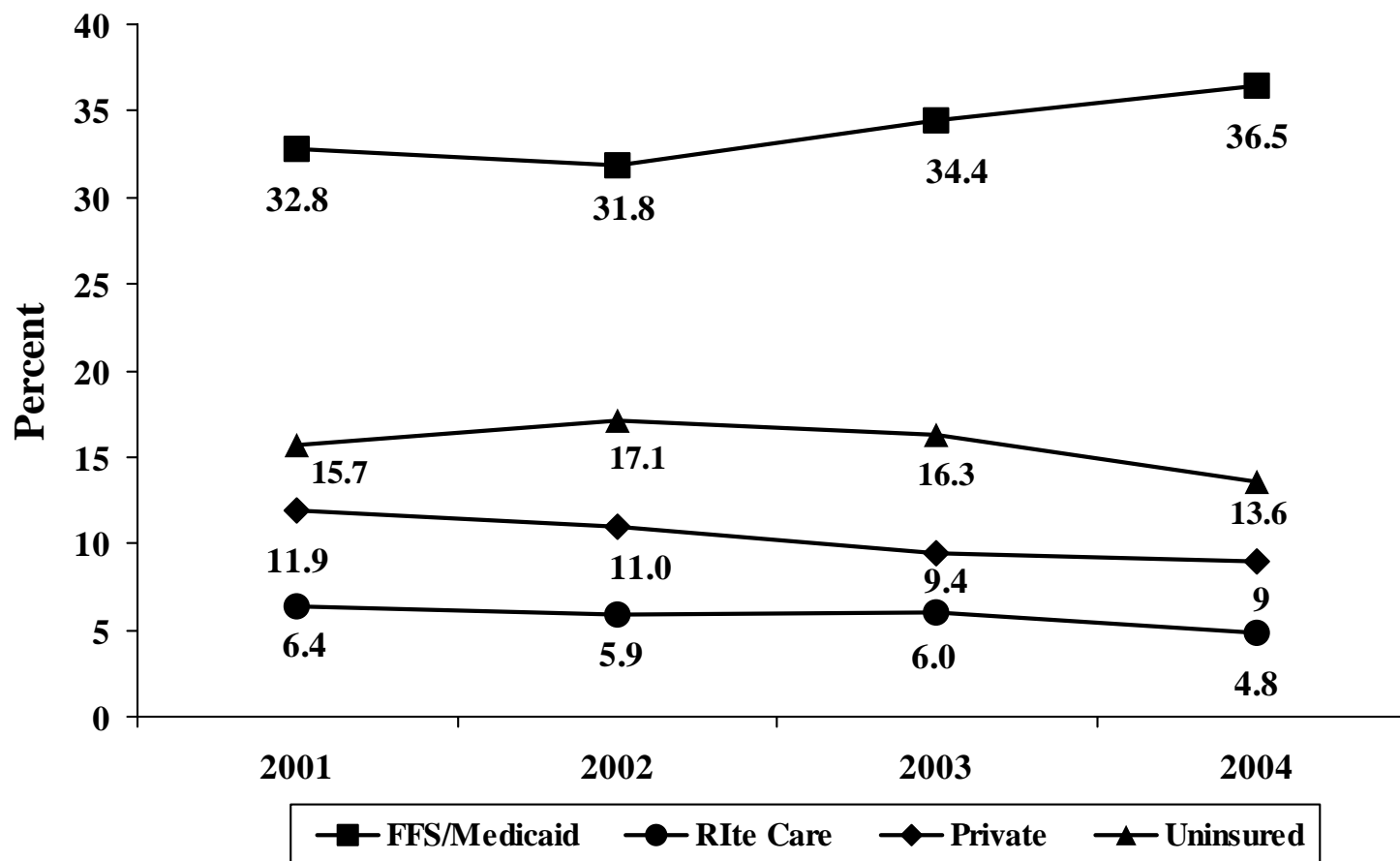
Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, CY 2001-2004

Figure 11: Percent of RI Hospitalizations with Primary Diagnosis of Mental Disorder for Children <18 by Health Insurance Coverage



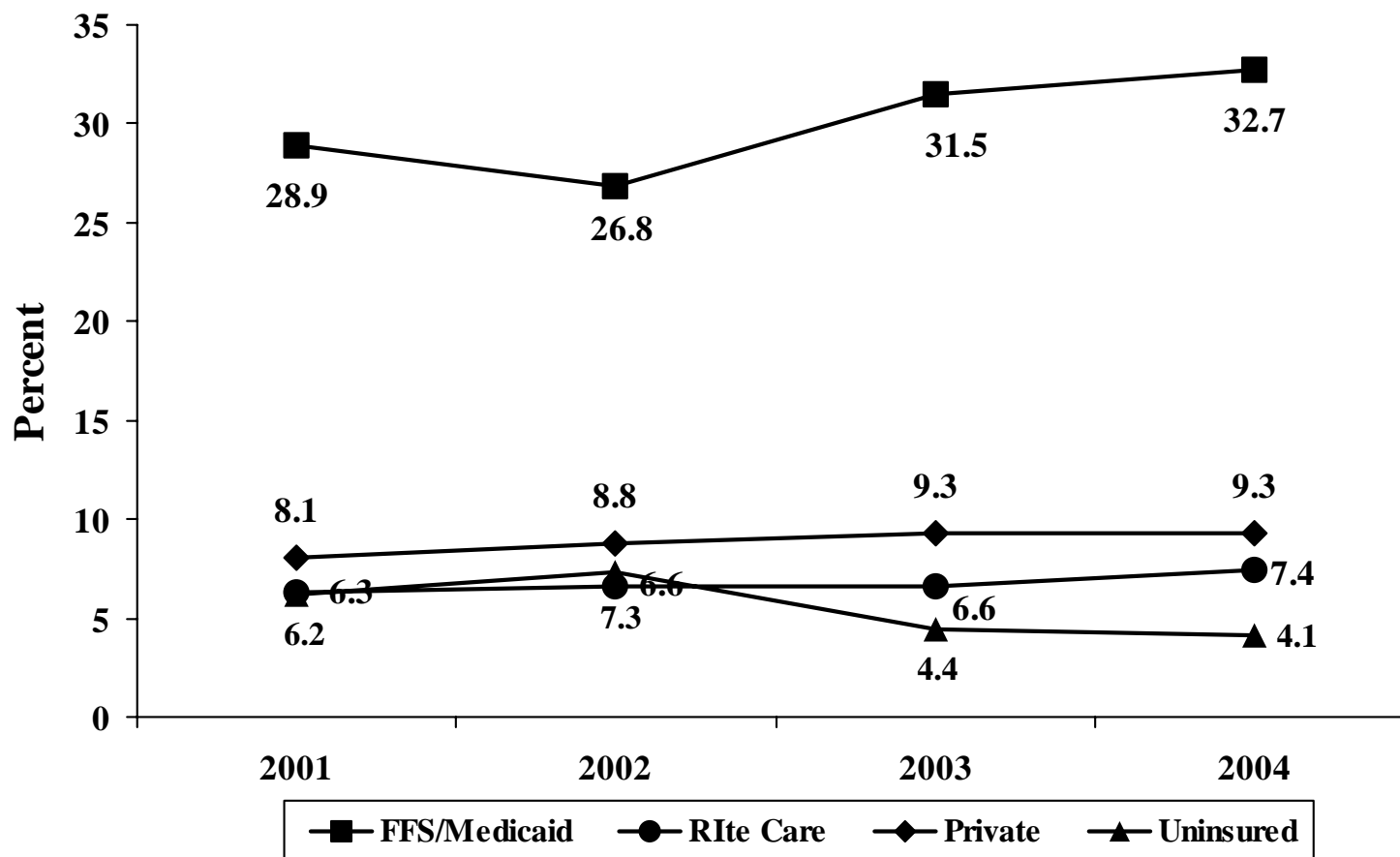
Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, 2001-2004

Figure 12: Percent of RI Hospitalizations with Primary Diagnosis of Mental Disorder for Adults 18-64 by Health Insurance Coverage



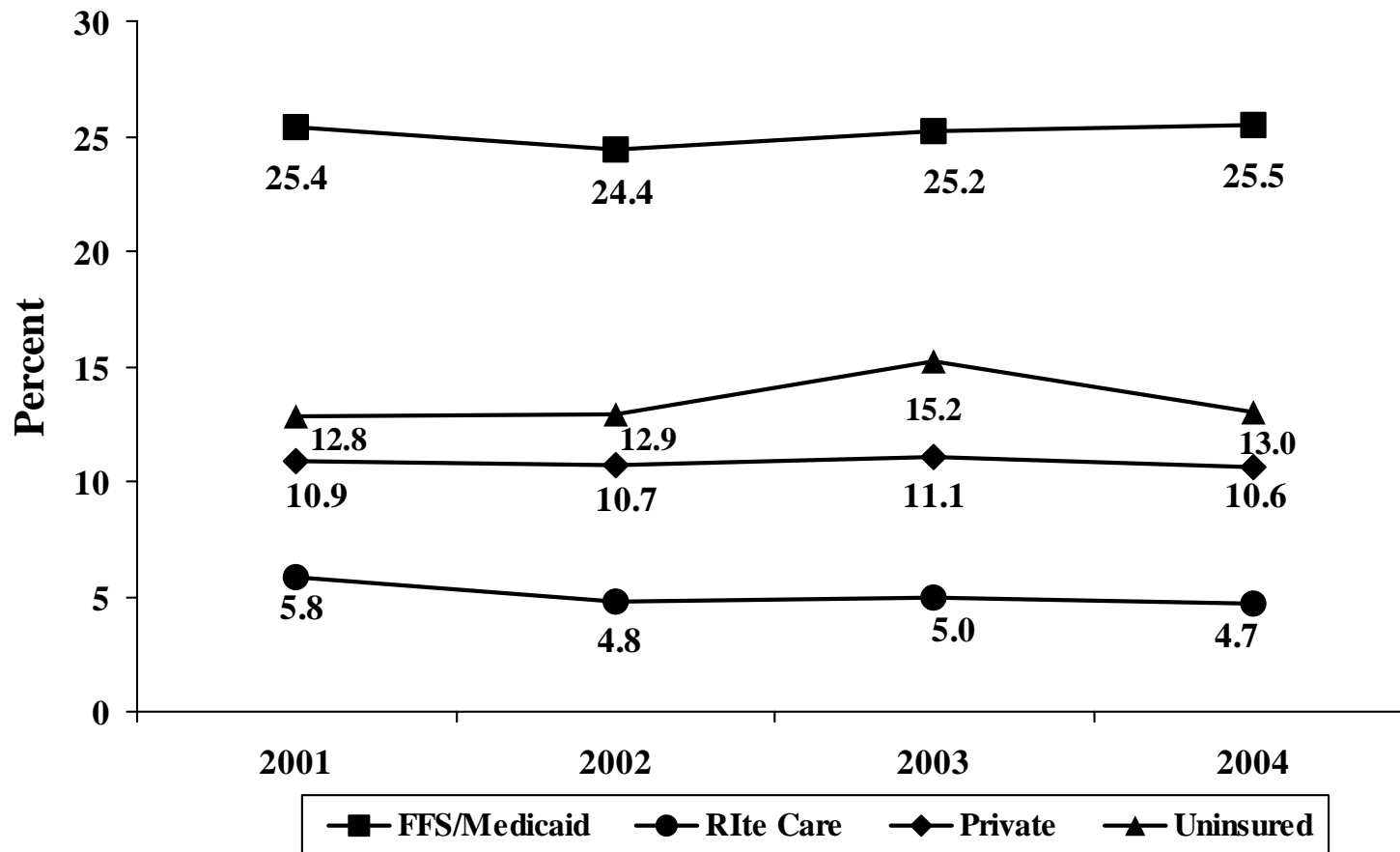
Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, 2001-2004

Figure 13: Percent of Hospitalizations >7 Days for Children <18 by Health Insurance Coverage



Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, 2001-2004

Figure 14: Percent of Hospitalizations > 7 Days for Adults 18-64 by Health Insurance Coverage



Data Source: Rhode Island Hospital Discharge Data Set, RI Department of Health, 2001-2004

Section Va: List of Health Indicators for Prenatal Care and Birth Outcomes by Health Coverage CY 1993-2005: Vital Statistics Birth & Death Files	
1) Total Number of RI Resident Births	
2) Total Number of Teen Births (<20)	
3) Percent of Total Births to Teenagers (<20)	
4) Percent Second Time Births to Teen Mothers	
5) Percent of Births to Women (\geq 35)	
6) Percent of Births to Women who are Immigrants	
7) Percent of Births to Hispanic Women	
8) Percent of Births to Black Women	
9) Percent of Births to Women with High Parity (>3)	
10) Percent of Women Who Began Prenatal Care in First Trimester	
11) Percent of Women Who Received Adequate/Adequate+ Prenatal Care	
12) Percent of Pregnant Women Who Smoke Cigarettes	
13) Percent of Women with Short Interbirth Interval (<18 months)	
14) Percent of Cesarean Births	
15) Percent of Low Birthweight Infants (<2500 grams)	
16) Percent of Very Low Birthweight Infants (<1500 grams)	
17) Percent of Premature Births (<37 weeks)	
18) Percent of Multiple Births	
19) Neonatal Mortality (<28 days)	
20) Postneonatal Mortality (28-365 days)	
21) Infant Mortality (<1 year)	

Data Source: RI Medicaid Research & Evaluation Project, RI DHS, Vital Statistics Birth File, RI Department of Health

Section Vb: Health Indicator Data Table for Prenatal Care and Birth Outcomes by Health Coverage CY 1995-2005

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
1) Total Number of RI Resident Births	12,422	12,300	12,076	12,201	11,958	12,065	12,200	12,441	12,690	12,309	12,263
Medicaid	3,510	3,971	3,619	3,618	3,554	4,271	4,533	4,543	4,700	5,478	5,798
Private	8,251	7,962	8,049	8,208	8,042	7,577	7,453	7,620	7,769	6,658	6,237
2) Total Number of Teen Births (<20)	1,267	1,299	1,322	1,312	1,211	1,255	1,229	1,160	1,077	1,159	1,122
Medicaid	721	790	718	713	683	839	870	803	781	932	943
Private	430	453	509	529	460	368	328	357	266	206	155
3) Percent of Total Births to Teenagers (<20)											
Medicaid	20.8	19.9	19.8	19.7	19.2	19.6	19.2	17.7	16.6	17.0	16.3
Private	5.2	5.7	6.3	6.4	5.7	4.9	4.4	4.7	3.5	3.1	2.5
4) Percent Repeat Births to Teen Mothers (<20)											
Medicaid	23.3	25.8	23.0	24.2	24.9	24.1	22.0	22.6	19.5	20.1	19.1
Private	12.8	12.4	15.4	12.6	15.2	11.7	14.7	15.4	9.9	15.8	5.4
5) Percent of Births to Women (>=35)											
Medicaid	7.1	7.2	6.2	7.4	7.2	7.2	7.7	8.0	8.4	9.4	10.0
Private	16.6	17.5	18.2	19.1	19.4	20.5	21.9	23.1	24.3	24.9	26.3

Data Table: RI Medicaid Research and Evaluation Project, DHS, Vital Statistics Birth File, RI Department of Health, CY 1995-2005

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
6) Percent of Births to Women who are Immigrants											
Medicaid	30.0	30.7	32.3	32.5	33.8	38.2	38.1	40.6	41.2	38.2	38.8
Private	14.2	15.0	16.7	16.0	16.0	15.6	15.3	16.6	17.6	15.8	14.5
7) Percent of Births to Hispanic Women											
Medicaid	25.5	25.0	29.0	30.0	31.0	34.7	34.4	34.5	36.1	34.0	34.0
Private	5.8	7.3	7.8	8.1	8.5	7.5	7.4	8.5	8.8	7.1	6.7
8) Percent of Births to Black Women											
Medicaid	11.6	12.4	11.0	12.1	11.8	14.3	14.3	13.8	14.5	13.1	14.3
Private	4.3	4.3	5.1	4.8	5.0	5.0	4.5	4.9	5.3	4.6	4.0
9) Percent of Births to Women with High Parity (>3 children)											
Medicaid	11.9	12.1	11.5	11.9	12.7	12.7	12.3	12.7	13.1	12.0	11.6
Private	5.4	5.8	6.1	6.7	6.4	6.2	5.9	6.2	6.2	6.0	6.2
10) Percent of Women Who Began Prenatal Care in First Trimester											
Medicaid	80.4	80.6	80.9	81.2	84.2	84.2	85.3	82.4	84.1	84.2	83.8
Private	94.2	94.4	93.6	93.8	94.8	95.1	95.2	94.2	95.0	94.7	94.4
11) Percent of Women Who Received Adequate/Adequate+ Prenatal Care *											
Medicaid	76.0	79.1	80.2	83.0	82.6	81.3	82.3	81.4	82.2	76.8	73.6
Private	86.5	87.9	90.4	90.1	90.0	90.7	91.0	90.9	91.9	89.2	87.1

Data Table: RI Medicaid Research and Evaluation Project, DHS, Vital Statistics Birth File, RI Department of Health, 1995-2005

* Adequate prenatal care = care starts in first trimester and women receives 80% of expected visits

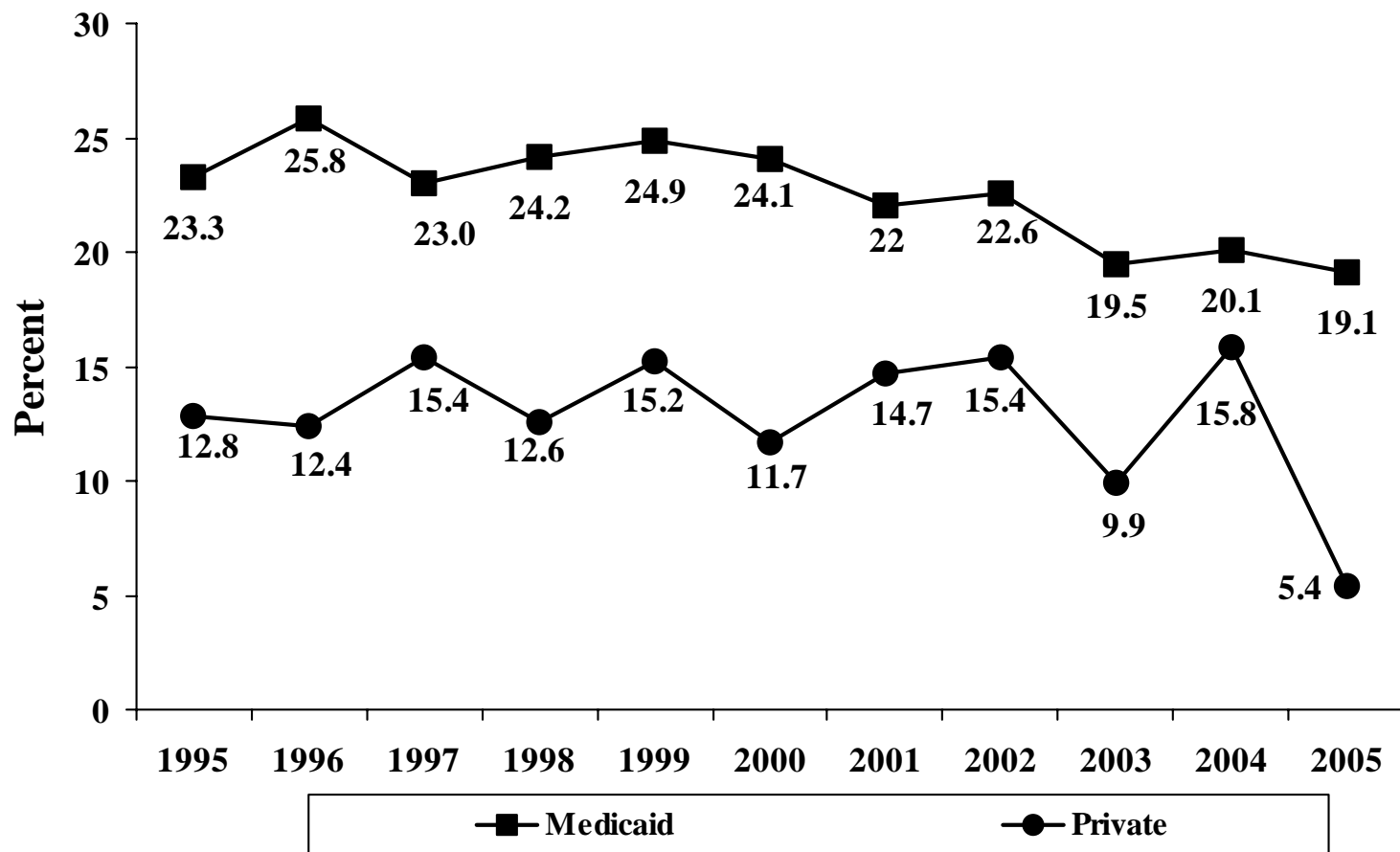
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
12) Percent of Pregnant Women Who Smoke Cigarettes											
Medicaid	29.2	27.0	25.6	24.3	23.1	24.1	23.0	20.6	20.2	18.4	16.3
Private	10.9	10.9	11.4	10.9	9.5	9.1	8.2	7.1	6.2	5.4	5.1
13) Percent of Women with Short Interbirth Interval (<18 months)											
Medicaid	30.0	28.6	29.8	30.7	28.9	29.7	30.3	31.3	27.9	27.2	27.3
Private	28.4	27.2	26.6	27.5	28.0	27.5	28.7	28.2	27.0	30.7	29.8
14) Percent of Cesarean Births											
Medicaid	18.1	17.0	16.3	19.3	19.1	20.6	22.2	24.0	24.6	26.3	26.7
Private	19.9	19.9	21.2	21.3	22.4	24.4	26.6	29.2	31.9	31.5	33.6
15) Percent of Low Birthweight Infants (<2500 grams)											
Medicaid	8.2	8.2	8.3	8.8	8.1	8.2	8.5	8.4	9.6	8.8	8.0
Private	6.1	5.9	6.7	6.9	6.7	6.4	6.4	7.4	8.1	7.5	7.5
16) Percent of Very Low Birthweight Infants (<1500 grams)											
Medicaid	1.1	1.2	1.4	1.6	1.5	1.7	1.6	1.8	1.7	1.6	1.7
Private	1.0	0.9	1.5	1.6	1.4	1.4	1.4	1.6	1.8	1.4	1.4

Data Table: RI Medicaid Research and Evaluation Project, DHS, Vital Statistics Birth File, RI Department of Health, 1995-2005

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
17) Percent of Premature Births (<37 weeks)											
Medicaid	6.8	8.2	7.6	8.9	8.8	9.5	10.5	9.9	9.6	10.5	10.4
Private	6.4	6.5	7.2	8.5	8.2	9.0	8.5	9.5	10.2	9.7	10.1
18) Percent of Multiple Births											
Medicaid	2.2	2.9	2.4	3.2	2.4	2.3	3.2	2.5	2.4	3.3	2.8
Private	2.9	3.0	3.4	4.3	3.9	3.5	4.1	5.0	5.2	4.6	5.2
19) Neonatal Mortality (<28 days) Rate per 1000 Births											
Medicaid	6.2	3.3	5.3	5.5	3.4	3.5	6.6	4.6	5.3	3.5	3.6
Private	4.6	3.0	5.1	4.1	3.1	5.0	4.0	2.9	4.0	4.2	5.0
20) Postneonatal Mortality (28-365 days) Rate per 1000 Births											
Medicaid	3.1	2.0	2.8	1.9	2.0	1.6	2.0	3.3	3.0	1.5	2.4
Private	0.7	0.8	0.9	1.6	0.7	1.1	0.8	1.3	0.8	1.1	0.8
21) Infant Mortality (<1 year) Rate per 1000 Births											
Medicaid	9.4	5.3	8.0	7.5	5.3	5.2	8.6	7.9	8.3	4.9	6.0
Private	5.3	3.8	6.0	5.7	3.9	6.1	4.8	4.2	4.8	5.3	5.8

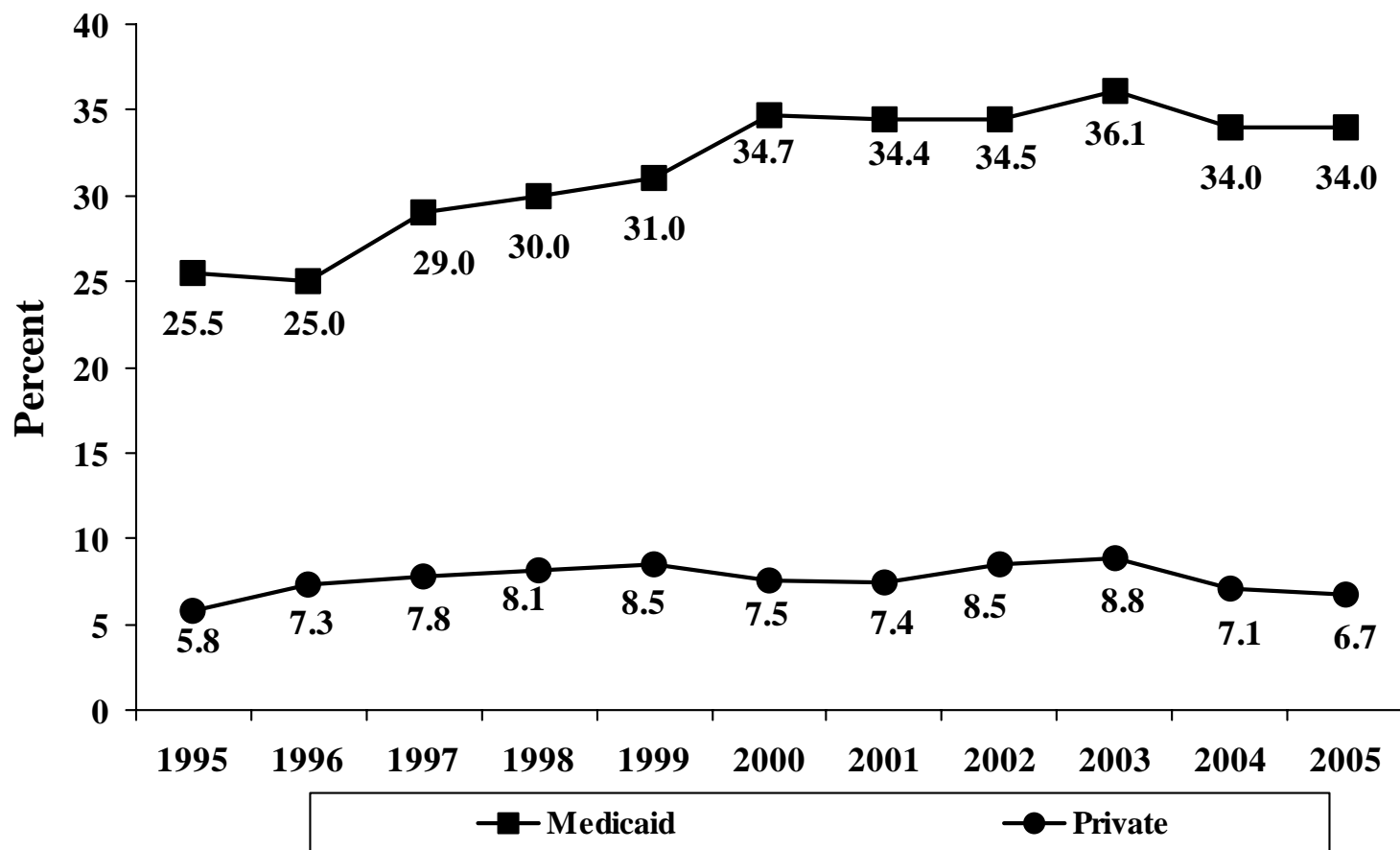
Data Table: RI Medicaid Research and Evaluation Project, DHS, Vital Statistics Birth File, RI Department of Health, 1995-2005

Figure 15: Percent Repeat Births to Teen Mothers (<20) by Health Insurance Coverage



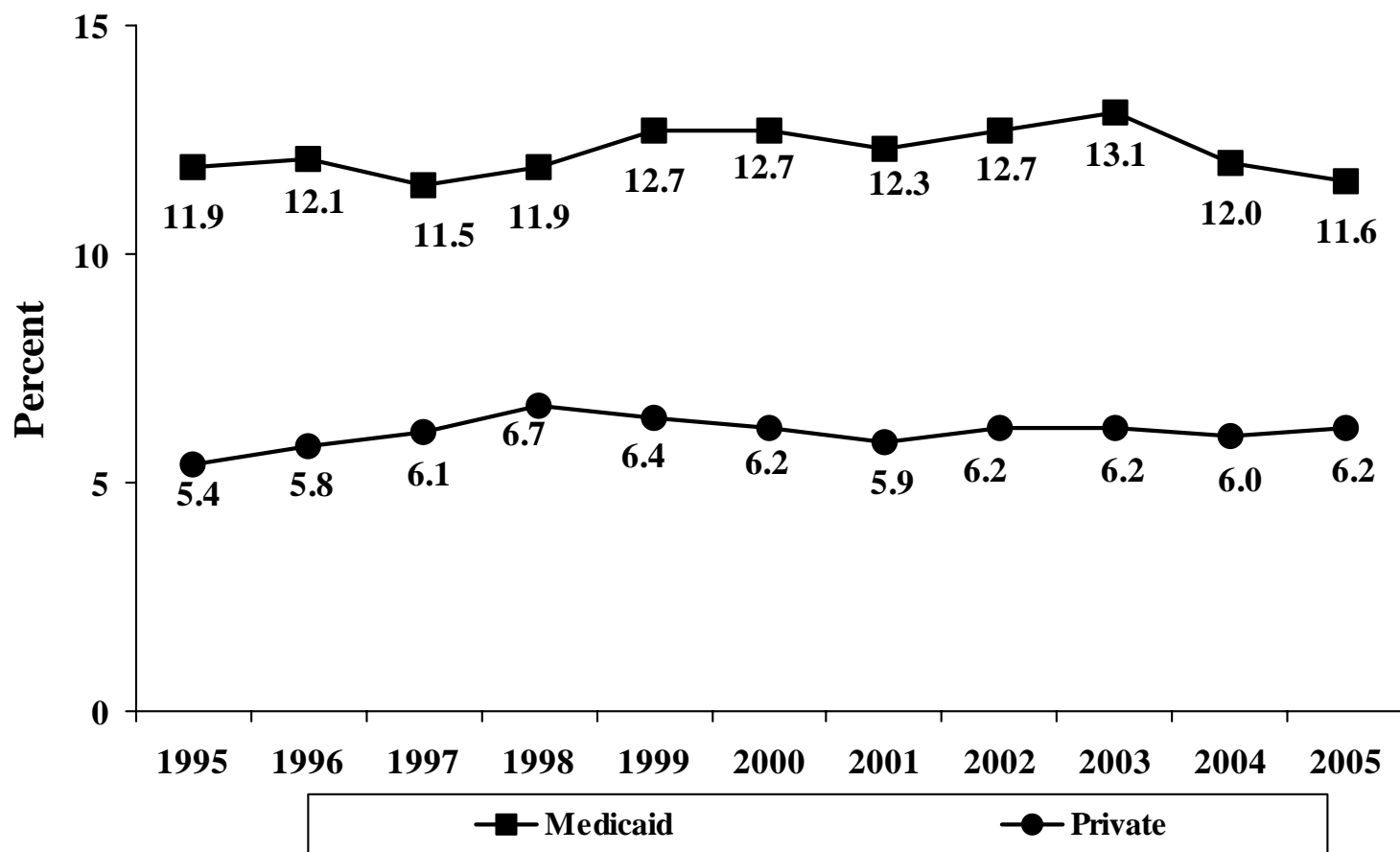
Data Source: Vital Statistics Birth File, RI Department of Health, 1995-2005

**Figure 16: Percent of Births to Hispanic Women
by Health Insurance Coverage**



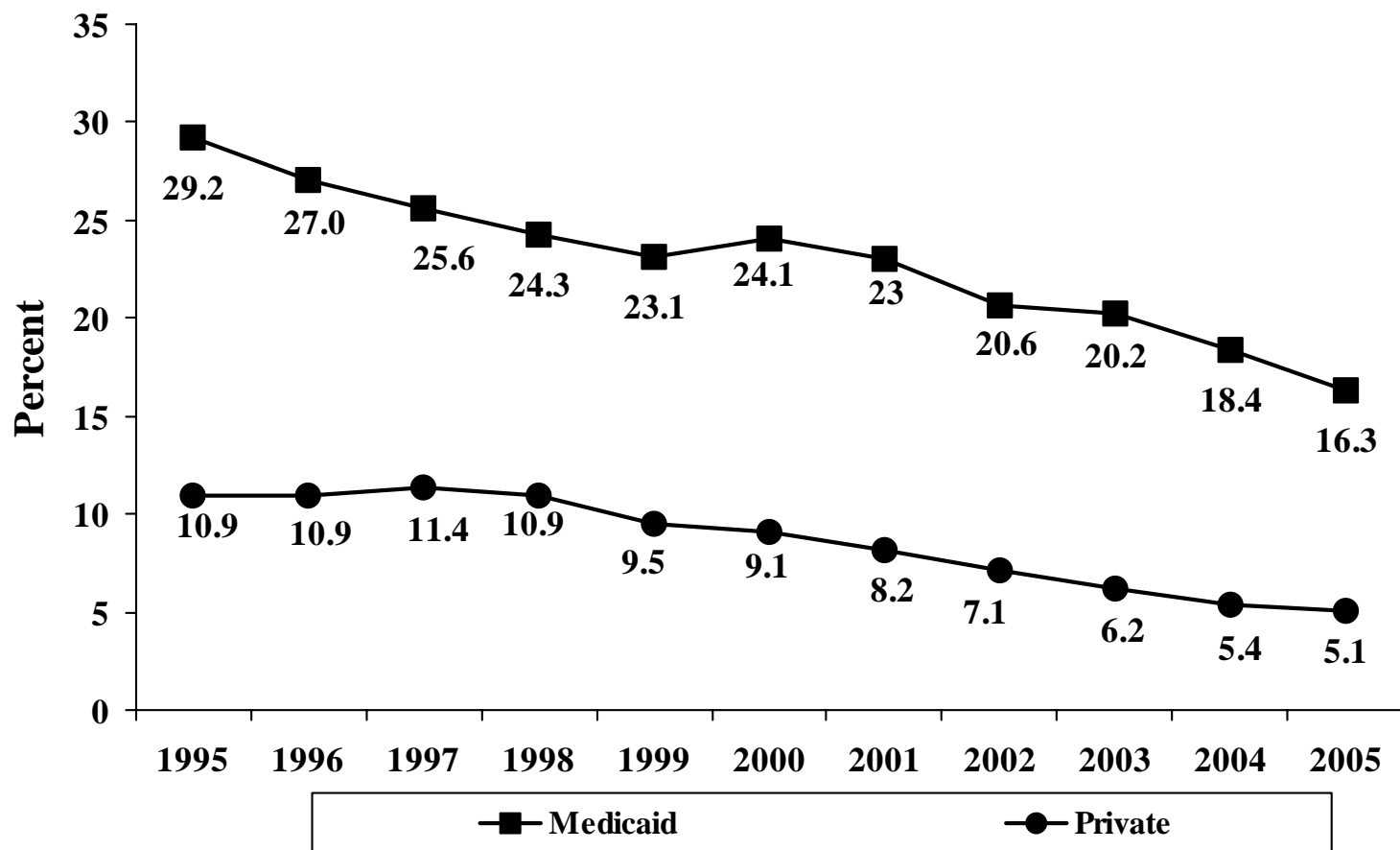
Data Source: Vital Statistics Birth File, RI Department of Health, 1995-2005

Figure 17: Percent of Births to Women with High Parity (>3 Children) by Health Insurance Coverage



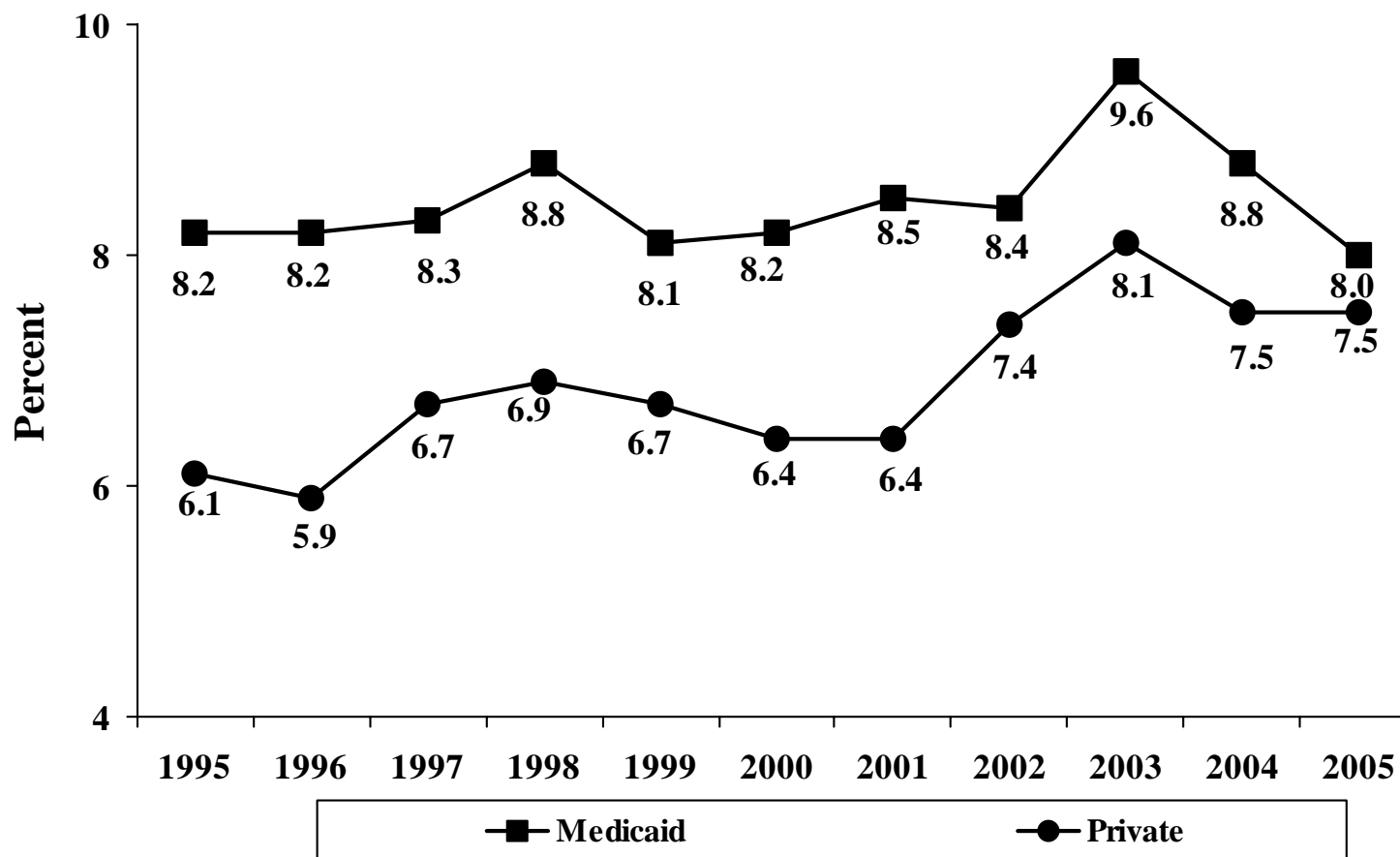
Data Source: Vital Statistics Birth File, RI Department of Health, 1995-2005

Figure 18: Percent of Pregnant Women Who Smoke Cigarettes by Health Insurance Coverage



Data Source: Vital Statistics Birth File, RI Department of Health, 1995-2005

Figure 19: Percent of Low Birthweight Infants (<2500 grams) by Health Insurance Coverage



Data Source: Vital Statistics Birth File, RI Department of Health, 1995-2005

Section VIa: List of Health Indicators for Health Behaviors and Life Stress for Women During Pregnancy and Postpartum Periods by Health Coverage* CY 2002 – 2004: PRAMS	
1) Percent of Women Who Ever Breastfeed	
2) Percent of Postpartum Women Using Contraception	
3) Percent of Women Who Had Postpartum Checkup	
4) Percent of Pregnant Women Who Moved During Pregnancy	
5) Percent of Pregnant Women Who were Homeless During Pregnancy	
6) Percent of Pregnant Women Who Couldn't Pay Bills During Pregnancy	
7) Percent of Pregnant Women Who Argued More With Husband/Partner During Pregnancy	
8) Percent of Women Who Have Moderate/Severe Postpartum Depression	
9) Percent of Pregnant Women Whose Pregnancies are Unplanned	

Data Source: Prenatal Risk and Monitoring System (PRAMS), RI Department of Health, 2002-2004

Technical Notes: Mail survey sent to RI mothers @ 3 months postpartum

**Section VIb: Health Indicator Data Table for Health Behaviors and Life Stress for Women During Pregnancy
and Postpartum Periods by Health Coverage CY 2002 – 2004**

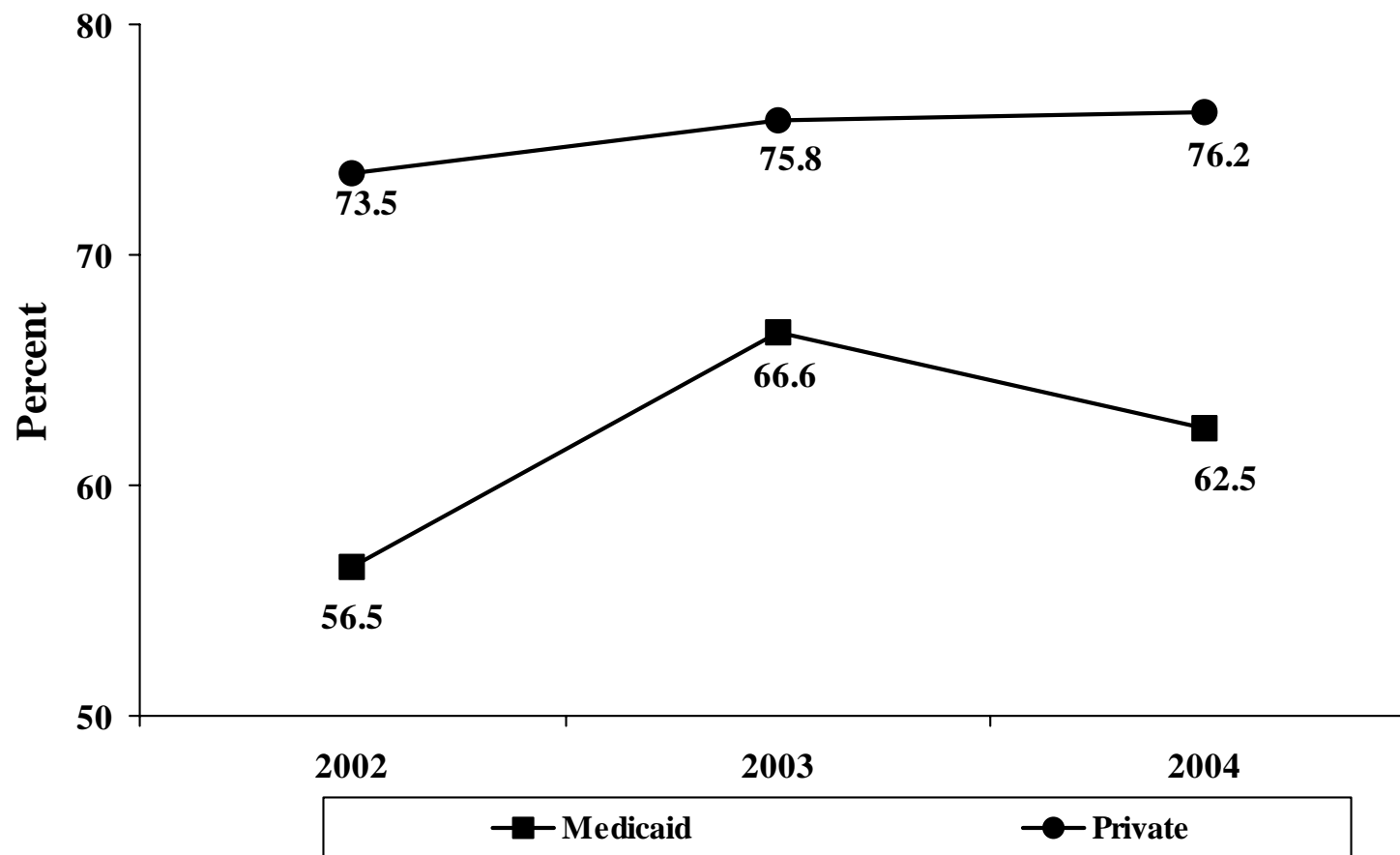
	2002	2003	2004
1) Percent of Women Who Ever Breastfeed			
Medicaid	56.5	66.6	62.5
Private	73.5	75.8	76.2
2) Percent of Postpartum Women Using Contraception			
Medicaid	85.3	84.3	83.5
Private	83.6	81.9	88.2
3) Percent of Women Who Had Postpartum Check-up			
Medicaid	87.7	88.6	89.1
Private	97.8	95.9	97.1
4) Percent of Pregnant Women Who Moved During Pregnancy			
Medicaid	39.2	38.6	41.8
Private	29.5	23.7	25.9
5) Percent of Pregnant Women Who were Homeless During Pregnancy			
Medicaid	8.7	13.1	7.8
Private	1.0	1.4	1.2
6) Percent of Pregnant Women Who Couldn't Pay Bills During Pregnancy			
Medicaid	42.3	36.2	32.1
Private	12.3	11.9	10.6

Data Source: Prenatal Risk and Monitoring System (PRAMS), RI Department of Health, 2002-2004

	2002	2003	2004
7) Percent of Pregnant Women Who Argued more with Husband/Partner During Pregnancy			
Medicaid	42.7	36.1	36.0
Private	20.5	20.3	16.3
8) Percent of Women Who Have Moderate/Severe Postpartum Depression			
Medicaid	24.7	25.6	N/A
Private	14.4	15.6	N/A
9) Percent of Pregnant Women Whose Pregnancies are Unplanned			
Medicaid	71.5	66.4	67.1
Private	32.1	32.3	32.9

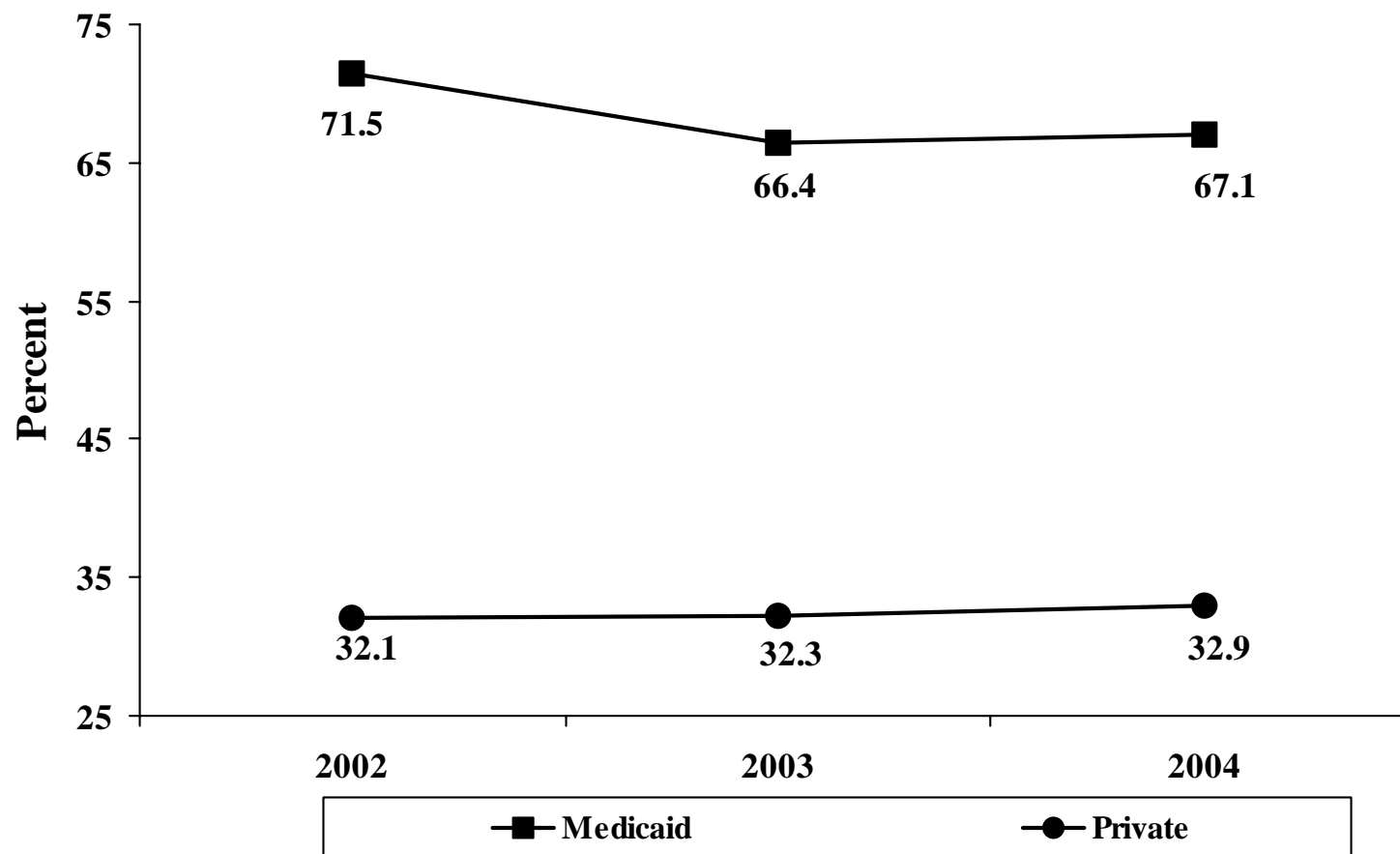
Data Source: Prenatal Risk and Monitoring System (PRAMS), RI Department of Health, 2002-2004

Figure 20: Percent of Mothers Who Breastfeed By Health Insurance Coverage



Data Source: Prenatal Risk and Monitoring System (PRAMS), RI Department of Health, 2002-2004

**Figure 21: Percent of Pregnant Women
Whose Pregnancies are Unplanned
by Health Insurance Coverage**



Data Source: Vital Statistics Birth File, RI Department of Health, 1995-2004

Appendix 1

Definitions of Health Indicators

Created from MMIS/Medicaid Research File (MRF)

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September 2006

Definitions of Health Indicators Created from MMIS/Medicaid Research Files - MRF	Specification in Attachment (page #)
1) Total Number Ever Eligible Children	
2) Total Average Eligible Children (365 days enrolled = one eligible) – denominator used to calculate rates	
3) Physician Office Visit - Rate per 1000 – visit = all encounters/claims that have same date of service and provider number	p. 64
4) Emergency Department Visit Rate per 1000	p. 68
5) Hospitalization Rate per 1000 – hospital claims are grouped by person and date of service/claims that have contiguous dates of service count as one hospitalization	p. 67
6) Total Number of Hospital Stays	
7) Total Number Hospital Days	
8) Hospital Mean Length of Stay in Days	
9) Hospital Median Length of Stay in Days	
10) Percent of Hospital Stays > 7 Days	
11) Percent of Hospital Stays > 30 Days	
12) Percent of Hospitalizations with any Diagnosis of Mental Disorder – ICD9 Grouping 29000-31900	
13) Any Diagnosis of Depression on any Claim/Encounter Rate per 1000 - ICD9 29600-29699; 2980; 3004; 30112; 3090; 3091; 31100-31199; 3131	p. 69
14) Any Diagnosis of Asthma on any Claim/Encounter Rate per 1000 – ICD9 49300-49399	p. 69
15) Any Diagnosis of Diabetes on any Claim/Encounter Rate per 1000 – ICD9 25000-25099	p. 69
16) Any Diagnosis of Substance Abuse on any Claim/Encounter Rate per 1000 - ICD9 29100-29199; 29200-29299; 30300-30399; 30400-30499; 30500-30599	p. 69
17) Dental Claim Rate per 1000 – Claim type L	p. 69

Data Source: MMIS/Medicaid Research Files (MRF) ages <21, SFY 2002-2004

Technical Notes: Attachment I - MRF Indicator Specifications include definition of physician office visit, emergency department visit and hospitalizations. Hospitalizations do not include births. Disease rates were calculated from all professional/outpatient and inpatient/institutional claims/encounter.

Appendix 2

Medicaid MRF Indicator Specifications

Medicaid Research File (MRF)
INDICATOR SPECIFICATIONS

Defining Physician Office Visits	64
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Substance Abuse	
Asthma	
Diabetes	
Dental	
Depression	
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Defining Physician Office Visits

MMIS (Professional Claims - HCFA 1500s)

Files: UB0204 - Claim Type 0
CO0203 - Claim Type Y
CO04 - Claim Type y
Prof02 - Claim Type M
Prof03 - Claim Type M
Prof04 - Claim Type M

Encounter (HCFA 1500s)

Files: MCUB0204
MCPROF0203
MCPROF04

Procedure Codes to Use in Defining Physician Office Visits ('procedurecode' in MMIS files;
'proccode 1-6' in MCUB0204; 'proccode 1-5' in MCPROF files)

Office or other outpatient services

99201 - 99205 * new patient
99211 - 99215 * established patient

Consultations (initiated by physician, patient or insurer)

99241 - 99245 * office consultation, secondary

Preventive medicine services

99381 - 99387 * new patient
99391 - 99397 * established patient

Prolonged Services with Direct Patient Contact - Outpatient

99354 - 99355 *

Encounter Fees

X0190 * Indian Health Service Encounter Fee
X0312 * CHC – Family Planning Clinic Encounter
X0313 * CHC – Encounter Fee

Annual Gynecological Exam

S0610 * From KB
S0611 * From KB
S0612 * From KB
G0101 * Cervical or Vaginal Cancer Screening

OFFICE VISIT = All such claims for an individual member that have the same date of service and the same 'Provnum' can be counted as being part of one office visit. This latter definition is of particular relevance when analyzing data for persons with multiple health conditions. Such people may schedule visits with a number of medical practitioners on the same day.

General Caveats: These definitions of office visits can give an approximate count of office visits. However, these definitions do not necessarily provide an accounting of all the medical services delivered at the visits. For example, a person might receive certain screenings the analysis of which might occur in a different location or the results of which might not be produced until a latter date. Claims for these services might thus be submitted from different providers and/or with dates of service different from those on which the screenings were performed.

Defining Hospitalizations

Hospitalizations

MMIS (Institutional Claims - UB92s)

Files: UB0204 - Claim Type I
CO0203 - Claim Type W
CO04 - Claim Type W

Revenue Code < 230 ('RevenueCode')

Type of Bill = 110-129 ('TypeofBill')

Remove SOBRA Births = Claim Type I
PrimaryDiagnosis = 'V220 '
Provnum = 2653

Encounter (UB92s)

Files: MCUB0204

Any Revenue Code < 230 ('RevCode 1-5')

Type of Bill = 110-129 ('TypeofBill')

HOSPITALIZATION = Individual hospitalizations are determined by examining claims for individual members and their dates of service. Hospital claims for the same member that have contiguous dates of service are counted as part of one hospitalization.

Defining Emergency Room Visits

Emergency Room Visit

MMIS (Institutional Claims - UB92s)

Files: UB0204 - Claim Type 0
CO0203 - Claim Type X
CO04 - Claim Type X

Revenue Codes = 450-459 (excluding 456 = Urgent Care)
('RevenueCode')

Type of Bill = 130-139
('TypeofBill')

Encounter (UB92s)

Files: MCUB0204

Any Revenue Codes = 450-459 (excluding 456 = Urgent Care) and no Revenue Code < 230
('RevCode 1-5')

Type of Bill = 130-139
('TypeofBill')

ER VISIT = Claims for a specific individual with the same date of service.

Specific Diagnoses

Diagnoses of Substance Abuse

29100 - 29199 Alcoholic Psychoses
29200 - 29299 Drug Psychoses
30300 - 30399 Alcohol Dependence Syndrome
30400 - 30499 Drug Dependence Syndrome
30500 - 30599 Nondependent Abuse of Drugs

Diagnoses of Asthma

49300 - 49399 Asthma

Diagnoses of Diabetes

25000 - 25099 Diabetes

Dental Diagnoses

Claim Type L

Diagnoses of Depression

29600 - 29699 Affective Psychoses: These include major
 manic and depressive disorders as well as
 bipolar disorders
2980 Depressive type psychosis
3004 Neurotic depression
30112 Chronic depressive personality disorder
3090 Brief Depressive reaction
3091 Prolonged depressive reaction
31100 - 31199 Depressive Disorders, NEC
3131 Misery and Unhappiness

Populations

MANAGED CARE POPULATIONS

1. Children with Special Health Care Needs (Under Age 21)

Use Age and SSI, Adoption Subsidy and Katie Beckett AID Categories. Take out RiteShare population, RS = 1.

2. Foster Children (Under Age 21)

Use Age and Foster Child AID Categories. Take out RiteShare population, RS = 1.

3. Children in RiteCare (Under Age 21)

Use Age and Managed Care AID Categories, take out SSI, Adoption Subsidy, Katie Beckett and Foster Child AID Categories. Take out RiteShare population, RS = 1.

4. RiteCare Adults - Pregnant Women/Parents (Ages 21-64)

Use Age and Managed Care AID Categories. Take out RiteShare population, RS = 1.

Note 1: For these populations, you need to pull data from both the FFS and the MC files. This results from the facts that (1) health plans are not required to cover services provided before a person's enrollment in a specific health plan and (2) there are specific services which are not covered in mc plans, for example dental services. You might also need to pull data from the FFS cross-over files, requires examination.

Note 2: RiteShare claims are taken out of all populations. Health Plans do not share these claims with Medicaid

FEE-FOR-SERVICE POPULATIONS

6. Fee-For-Service Adults (Ages 21 to 64) DD/MR, Non-Duals

Use Age, FFS AID Categories, Non-Dual Status, and Waivercode = 3, Mentally Retarded (MR) Waiver.
Take out RiteShare population, RS = 1.

7. Fee-For-Service Adults (Ages 21 to 64) DD/MR, Duals

Use Age, FFS AID Categories, Dual Status, and Waivercode = 3, Mentally Retarded (MR) Waiver. Take
out RiteShare population, RS = 1.

8. Fee-For-Service Adults (Ages 21 to 64) SPMI, Non-Duals

Use Age, FFS AID Categories, Non-Dual Status, and _____.
Take out RiteShare population, RS = 1.

9. Fee-For-Service Adults (Ages 21 to 64) SPMI, Duals

Use Age, FFS AID Categories, Non-Dual Status, and _____.
Take out RiteShare population, RS = 1.

10. Fee-For-Service Adults (Ages 21 to 64) Not DD/MR nor SPMI, Non-Duals

Use Age, FFS AID Categories, Non-Dual Status, and _____.
Take out RiteShare population, RS = 1.

**11. Fee-For-Service Adults (Ages 21 to 64) Not DD/MR nor
SPMI, Duals**

Use Age, FFS AID Categories, Dual Status, and _____.
Take out RiteShare population, RS = 1.

12. Elderly - Long Term Care

Use Age, FFS AID Categories, and _____.
Take out RiteShare population, RS = 1.

AID Categories

SSI

AA

AB

AD

AL

AM

AR

BA

BB

BD

BL

BM

J1

J2

LA

LB

LD

LL

LM

MA

MB

NA

NR

WA

WB

WD

WL

WM

Adoption Subsidy

CC

FC

HC

IC

JC

RC

Katie Beckett

KD

Foster Children

FM

FN

Managed Care and Fee-for-Service AID Categories

Grouping AID Categories into Managed Care (MC) or FFS

```
mc = 0;  *fee-for-service;
```

```
if ((aidcategorycode = '01') or (aidcategorycode = '03') or (aidcategorycode = '04') or
    (aidcategorycode = '33') or (aidcategorycode = '38') or (aidcategorycode = '39') or
    (aidcategorycode = '42') or (aidcategorycode = '43') or (aidcategorycode = '47') or
    (aidcategorycode = '48') or (aidcategorycode = '49') or (aidcategorycode = '53') or
    (aidcategorycode = '54') or (aidcategorycode = '58') or (aidcategorycode = '59') or
    (aidcategorycode = '61') or (aidcategorycode = '63') or (aidcategorycode = '64') or
    (aidcategorycode = '68') or (aidcategorycode = '69') or (aidcategorycode = '71') or
    (aidcategorycode = '73') or (aidcategorycode = '74') or (aidcategorycode = '81') or
    (aidcategorycode = '83') or (aidcategorycode = '84') or (aidcategorycode = '88') or
    (aidcategorycode = '89') or (aidcategorycode = '91') or (aidcategorycode = '93') or
    (aidcategorycode = '94') or (aidcategorycode = '98') or (aidcategorycode = '99') or
    (aidcategorycode = 'AL') or (aidcategorycode = 'AM') or (aidcategorycode = 'BL') or
    (aidcategorycode = 'BM') or (aidcategorycode = 'C1') or (aidcategorycode = 'C5') or
    (aidcategorycode = 'C7') or (aidcategorycode = 'CC') or (aidcategorycode = 'CN') or
    (aidcategorycode = 'FC') or (aidcategorycode = 'FM') or (aidcategorycode = 'FN') or
    (aidcategorycode = 'GA') or (aidcategorycode = 'GB') or (aidcategorycode = 'GC') or
    (aidcategorycode = 'GD') or (aidcategorycode = 'GM') or (aidcategorycode = 'GN') or
    (aidcategorycode = 'GS') or (aidcategorycode = 'HC') or (aidcategorycode = 'IC') or
    (aidcategorycode = 'J3') or (aidcategorycode = 'J4') or (aidcategorycode = 'J5') or
    (aidcategorycode = 'J6') or (aidcategorycode = 'J7') or (aidcategorycode = 'J8') or
    (aidcategorycode = 'JC') or (aidcategorycode = 'KD') or (aidcategorycode = 'LL') or
    (aidcategorycode = 'LM') or (aidcategorycode = 'RC') or (aidcategorycode = 'T1') or
    (aidcategorycode = 'T3') or (aidcategorycode = 'T4') or (aidcategorycode = 'T7') or
    (aidcategorycode = 'T8') or (aidcategorycode = 'T9') or (aidcategorycode = 'UC') or
    (aidcategorycode = 'UM') or (aidcategorycode = 'UN') or (aidcategorycode = 'UO') or
    (aidcategorycode = 'UP') or (aidcategorycode = 'UQ') or (aidcategorycode = 'UR') or
```

```
(aidcategorycode = 'US') or (aidcategorycode = 'UT') or (aidcategorycode = 'UU') or  
(aidcategorycode = 'UV') or (aidcategorycode = 'UW') or (aidcategorycode = 'UX') or  
(aidcategorycode = 'UY') or (aidcategorycode = 'UZ') or (aidcategorycode = 'VC') or  
(aidcategorycode = 'VM') or (aidcategorycode = 'VN') or (aidcategorycode = 'VO') or  
(aidcategorycode = 'VP') or (aidcategorycode = 'VQ') or (aidcategorycode = 'VY') or  
(aidcategorycode = 'WL') or (aidcategorycode = 'WM') or (aidcategorycode = 'Y1') or  
(aidcategorycode = 'Y2') or (aidcategorycode = 'Y3') or (aidcategorycode = 'Y4') or  
(aidcategorycode = 'Y5') or (aidcategorycode = 'Y6') or (aidcategorycode = 'Y7') or  
(aidcategorycode = 'Y8') or (aidcategorycode = 'Y9') or (aidcategorycode = 'YC') or  
(aidcategorycode = 'YE') or (aidcategorycode = 'YP') or (aidcategorycode = 'Z1') or  
(aidcategorycode = 'Z2') or (aidcategorycode = 'Z3') or (aidcategorycode = 'Z5') or  
(aidcategorycode = 'Z6') or (aidcategorycode = 'Z7') or (aidcategorycode = 'ZC') or  
(aidcategorycode = 'ZE') or (aidcategorycode = 'ZP') or (aidcategorycode = 'ZR'))
```

```
then mc = 1;  *managed care;
```

```
*****
```